

WETLAND DELINEATION REPORT

Horse Creek Wind Farm Project Town of Clayton Jefferson County, New York

Prepared for:

Atlantic Wind, LLC (Iberdrola Renewables, Inc.) 201 King of Prussia Road, Suite 500 Radnor, Pennsylvania 19087

Prepared by:

edr Companies

217 Montgomery Street, Suite 1000 Syracuse, New York 13202 P. 315.471.0688

F. 315.471.1061



WETLAND DELINEATION REPORT

Horse Creek Wind Farm Project Town of Clayton Jefferson County, New York

Prepared For: Atlantic Wind, LLC (Iberdrola Renewables, Inc.)

201 Kink of Prussia Road, Suite 500

Radnor, Pennsylvania 19087

Prepared By: edr Companies (edr)

217 Montgomery Street, Suite 1000

Syracuse, New York 13202

Date: December 2010

TABLE OF CONTENTS

1.0 INTE	RODUCTION	1
	ROJECT DESCRIPTION	
	URPOSE	
	ESOURCESUALIFICATIONS	
	SICAL CHARACTERISTICS AND RESOURCES	
2.1 P	HYSIOGRAPHY AND SOILS	3
	YDROLOGY	
	ISDICTIONAL AREA MAPPING/ATERS OF THE UNITED STATES	
	EW YORK STATE FRESHWATER WETLANDS & PROTECTED STREAMS	
	ISDICTIONAL AREA DELINEATION	
	ETHODOLOGY	10
	ULTS	
	/ETLANDSTREAMS	
	ICLUSIONS	
	ERENCES	
	LIST OF FIGURES	
Figure 1.	Project Location	
Figure 2.	USGS Topographic Mapping	
Figure 3.	Project Area Soils	
Figure 4.	Surface Waters	
Figure 5.	NWI Wetlands Mapping	
Figure 6.	NYSDEC Freshwater Wetlands Mapping	
Figure 7.	Delineated Wetlands	
	LIST OF TABLES	
Table 1.	Project Area Soils	
Table 2.	Delineated Wetlands and Streams	
	LIST OF APPENDICES	
Appendix A	Figures	
• •	· ·	
Appendix B	Routine Wetland Determination Forms	
Appendix C	Photos of Representative Wetland Communities	

1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION

Atlantic Wind, LLC (Project Sponsor), a wholly-owned subsidiary of Iberdrola Renewables, Inc. (Iberdrola), is currently developing an approximately 100 megawatt (MW) wind-powered generating facility, the Horse Creek Wind Farm, on 10,420 acres of leased private land in the Town of Clayton, Jefferson County New York (Project). edr Companies (edr) was retained by the Project Sponsor to identify and delineate all wetlands and streams within or adjacent to the proposed footprint of Project components, as well as alternative Project component locations. As currently conceived, the Project is anticipated to include up to 50 wind turbines, each with a generating capacity of 2.0 MW located in the Town of Clayton. This Wetland Delineation Report includes all wetlands surveyed during the 2007 and 2010 growing seasons for the various Project component locations considered in the Towns of Clayton and Orleans. A wetland survey area (Survey Area) was created for wetland delineation fieldwork that included various project component layout alternatives that were investigated as a part of the wetland delineation fieldwork. The term "Project Area", described in this Wetland Delineation Report is comprehensive of all alternative layouts considered during the 2007 and 2010 field efforts.

1.2 PURPOSE

This wetland delineation report has been prepared in support of the Draft Environmental Impact Statement (DEIS) currently being prepared by edr in accordance with the requirements of the New York State Environmental Quality Review Act (SEQRA). Specific tasks performed for this report included a field delineation of all potential state and federal jurisdictional areas proximate to the Project footprint, a subsequent instrument survey of jurisdictional area boundaries utilizing a Global Positioning System (GPS) with sub-meter accuracy, and a detailed description of jurisdictional areas based on hydrology, vegetation, and soils data collected in the field.

This report describes the results of both the delineation and data collection efforts conducted by **edr** as well as a description of the wetlands and waterbodies that were identified and delineated. This document is intended to provide all the necessary information for an agency jurisdictional determination, and to support a Joint Application for Permit, which will be submitted to the United States Army Corps of Engineers (Corps) and the New York State Department of Environmental Conservation (NYSDEC).

1.3 RESOURCES

Materials and literature supporting this investigation have been derived from a number of sources including United States Geological Survey (USGS) topographic mapping (Clayton, Lafargeville, Dexter and Brownville, NY 7.5 minute quadrangles), United States Fish and Wildlife Service (FWS) National Wetlands Inventory (NWI) mapping, NYSDEC freshwater wetlands mapping, United States Department of Agriculture (USDA) Soil Conservation Service (SCS) (currently the Natural Resources Conservation Service [NRCS]) Jefferson County Soil Survey, the NRCS List of Hydric Soils of the State of New York, the NRCS List of New York Soils with potential hydric inclusions, and recent aerial photography.

Vascular plant names follow nomenclature found in Gleason and Cronquist (1991), and wetland indicator status for vegetative species was determined by reference to Reed (1988).

1.4 QUALIFICATIONS

edr ecologists, James Pippin, William Trembath, Brian Schwabenbauer, Sara Stebbins, Nate Butera, and Eric Lockard performed the wetland delineations and data inventories.

Mr. Pippin is a project manager with over 15 years of experience in the environmental field. He received a bachelor's degree in Natural Resources Management from the University of Maryland at College Park. Professional expertise includes SEQRA compliance, local, state, and federal permitting, wetland delineations, wetland mitigation monitoring, stream restoration and monitoring, forest conservation management, global positioning system (GPS) mapping, and geographic information system (GIS) data analysis.

Mr. Trembath is a project manager with over 18 years experience in the environmental field. He received a bachelor's degree in biological sciences from SUNY Fredonia. His professional expertise includes environmental impact analyses and monitoring, wetland delineations, federal and state permitting, SEQRA and National Environmental Policy Act (NEPA) compliance, hazardous waste operations, industrial health and safety, emergency response, and wildlife damage management.

Mr. Schwabenbauer is a senior ecological resource specialist with over 7 years of experience in the environmental field. He received a bachelor's degree in environmental studies from Hobart College, and a master's degree in environmental policy from SUNY College of Environmental Science and Forestry. His professional expertise includes GPS surveying and mapping, GIS analysis, wetland delineations and

permitting, Phase 1 environmental site assessments, environmental compliance/construction monitoring, and SEQRA and NEPA documentation.

Ms. Stebbins is a senior ecological resource specialist with 10 years of experience in the environmental field. She received a bachelor's degree in forest biology and a master's degree in forest resource management from SUNY College of Environmental Science and Forestry. Professional expertise includes rare plant surveys, floristic inventories, environmental impact analysis, habitat assessments, wetland delineations, and GIS mapping and analysis.

Mr. Butera is an ecological resource analyst with three years of experience in the environmental field. He received a bachelor's degree in renewable resources from Morrisville State College. Professional expertise includes GIS mapping and analysis, GPS surveying and mapping, wetland delineations, environmental compliance construction monitoring and SEQRA documentation.

Mr. Lockard is a regulatory compliance specialist with over three years of experience in the environmental field. He received a bachelor's degree in biology from the Virginia Military Institute. Professional expertise includes GIS and computer aided drafting (CAD) analysis and mapping, GPS surveying and mapping, state and federal permitting, wetland delineations, and SEQR compliance.

2.0 PHYSICAL CHARACTERISTICS AND RESOURCES

2.1 PHYSIOGRAPHY AND SOILS

The proposed Project is located in the Erie Ontario Lowlands physiographic province of Jefferson County (USDA, 1989). The topography of this physiographic area ranges from nearly level to gently rolling. The Project Area is located within the clay plains portion of this lowland area, characterized by nearly level, prairie-like areas of clayey soils (USDA, 1989). The greatest topographic relief in the Project Area occurs in the northwestern portion where there is a relatively abrupt descent to the broad valley of the Chaumont River. Elsewhere, there is very little topographic relief generally consisting of shallow valleys associated with Horse Creek, Buttermilk Creek, and tributaries to Stone Mills Creek and the Chaumont River. Slopes range from 0 to 25 percent but are predominantly 0 to 8 percent. Elevations range from approximately 280 feet above mean sea level (amsl) along the Chaumont River in the northwestern portion of the Project Area to approximately 470 feet amsl near the intersection of Overbluff Road (CR 12) and Wilder Road. Excluding the Chaumont River valley, the lowest elevation is approximately 350 feet amsl in the southern portion of the

Project Area. Land use within the Project Area is dominated by active agriculture, with farms and single-family rural residences generally occurring along road frontage (Figure 2).

The Soil Survey of Jefferson County, New York (USDA, 1989) has mapped general soil associations and soil types within the Project Area (see Tables 4 and 5). This soil survey indicates that three soil associations, and 30 soil map units, are present within the Project Area. The dominant soil map units within the Project Area (as defined by coverage of greater than 1,000 acres) are Chaumont silty clay 0-3 percent slopes, Chaumont silty clay 3-8 percent slopes, Galoo-Rock outcrop complex 0-8 percent slopes, and Wilpoint silty clay loam 3-8 percent slopes. Soils in the Project Area are variable, with drainage ranging from excessively drained to very poorly drained, depths ranging from rock outcrops to greater than 5 feet, and parent materials including glacial lake deposits and glacial till. Soil textures in the Project Area range from clay to very rocky but are primarily silty clay, silty clay loam, and silt loam. Table 1 lists the soil associations found within the Project Area and their characteristics.

A review of the National Hydric Soil List for New York State indicates that portions of the Project Area contain hydric soils, as determined by the USDA Natural Resources Conservation Service (NRCS) (NRCS, 2006). Hydric soils covering approximately 13% of the Project Area include Covington silty clay, Guffin clay, Livingston mucky silty clay, and Fluvaquents-Udifluvents complex (see Figure 3). These soils are found in relatively narrow, linear stretches throughout the Project Area (generally southwest/northeast oriented) and are commonly associated with stream channels, NWI mapped wetlands, and/or wetlands approximated by edr. An additional 53% of the Project Area contains the following soil series with potential for hydric inclusions: Chaumont, Kingsbury, Minoa, Newstead, Niagara, Rhinebeck, and Udorthents (NRCS, 1989)

Table 1. Project Area Soils¹

Series	Subgroup	Mapping Unit	Slope (%)	Drainage ²	Landscape Position	Noted Hydrology	Depth to Seasonal High Water Table (ft)	Hydric Soil ³
Benson channery silt loam	Lithic Eutrochrepts	BfF	25-50	sed-ed	Linear areas on ridges and terrace fronts	Surface runoff is medium or rapid	>6.0	-
Benson-Galoo complex	-	BgB	0-8	sed-ed	Broad, undulating areas interspersed with rock outcrops on ridges	Surface runoff is medium	>6.0	-
Bombay loam	Glossoboric Hapludalfs	ВоВ	3-8	mwd	Oblong, concave areas on the top and lower sides of hills and ridges	Surface runoff is medium	1.5 - 2.0	-
Chaumont silty clay	Aeric Ochraqualfs	CIA	0-3	spd	Slightly convex, broad flats on lowland plains	Surface runoff is slow	0.5 - 1.5	В
Chaumont silty clay	Aeric Ochraqualfs	CIB	3-8	spd	Concave, sloping areas on lowland plains	Surface runoff is medium or slow	0.5 - 1.5	В
Covington silty clay	Mollic Ochraqualfs	Ср	0-3	pd	Smooth, broad, mostly level areas and partly depressional areas of lowland plains	Surface runoff is slow	0.5 - 1.0	А
Elmridge fine sandy loam	Aquic Dystric Eutrochrepts	EIB	3-8	mwd	Smooth, irregular areas and on concave slopes on plains or terraces	Surface runoff is medium	1.5 - 3.0	-
Farmington loam	Lithic Eutrochrepts	FaB	0-8	wd-sed	Broad or oblong, undulating areas on upland till plains	Surface runoff is slow or medium	>6.0	-
Fluvaquents- Udifluvents complex	-	Fu	0-8	wd-vpd	Adjacent to streams	-	-	А
Galoo-Rock outcrop complex	Lithic Udorthents	GbB	0-8	ed-sed	Undulating ridges and knolls	Surface runoff is slow or medium	>6.0	-
Galway silt loam	Typic Eutrochrepts	GIA	0-3	wd-mwd	Smooth oblong flat areas on uplands	Surface runoff is slow	1.5 - 3.0	-
Galway silt loam	Typic Eutrochrepts	GIB	3-8	wd-mwd	Convex sloping areas on uplands	Surface runoff is slow or medium	1.5 - 3.0	-
Galway silt loam	Typic Eutrochrepts	GIC	8-15	wd-mwd	Convex sloping areas on uplands	Surface runoff is medium	1.5 - 3.0	-

Series	Subgroup	Mapping Unit	Slope (%)	Drainage ²	Landscape Position	Noted Hydrology	Depth to Seasonal High Water Table (ft)	Hydric Soil ³
Galway very stony silt loam	Typic Eutrochrepts	GmC	0-15	wd	Broad, irregularly shaped, undulating and rolling areas on bedrock	Surface runoff is slow or medium	1.5 - 3.0	-
Guffin clay	Mollic Haplaquepts	Gv	0-3	pd	Irregularly shaped flats and in small, round, marsh-like depressions	Surface runoff is slow	0 - 0.5	А
Hudson silt loam	Glossaquic Hapludalfs	HuB	3-8	mwd	Smooth, irregularly shaped areas and on convex slopes	Surface runoff is medium	1.5 - 2.0	-
Hudson silt loam	Glossaquic Hapludalfs	HuC	8-15	mwd	Long and narrow, or irregularly shaped areas on convex slopes	Surface runoff is medium	1.5 - 2.0	-
Kingsbury silty clay	Aeric Ochraqualfs	KgA	0-2	spd	Smooth, broad, irregularly shaped areas on plains	Surface runoff is slow	0.5 - 1.5	В
Kingsbury silty clay	Aeric Ochraqualfs	KgB	2-6	spd	Concave, sloping areas on plains	Surface runoff is slow	0.5 - 1.5	В
Livingston mucky silty clay	Mollic Haplaquepts	Lc	0-3	vpd	Smooth, broad, flat or depressional areas on plains	Surface runoff is very slow or ponded	0 - 1.0	А
Minoa fine sandy loam	Aquic Dystric Eutrochrepts	Mv	0-3	spd	Smooth, broad or irregularly shaped areas	Surface runoff is slow	0.5 - 1.5	-
Newstead silt loam	Aeric Haplaquepts	Nn	0-3	spd-pd	Long, narrow or large, irregularly shaped areas on uplands	Surface runoff is slow	0.5 - 1.0	А
Niagara silt loam	Aeric Ochraqualfs	NoA	0-3	spd	Smooth, broad, irregularly shaped areas on lowland plains	Surface runoff is slow	0.5 - 1.5	-
Rhinebeck silt loam	Aeric Ochraqualfs	RhA	0-3	spd	Smooth, broad, irregularly shaped areas on lake plains and at the margins of uplands	Surface runoff is slow	0.5 - 1.5	В

Series	Subgroup	Mapping Unit	Slope (%)	Drainage ²	Landscape Position	Noted Hydrology	Depth to Seasonal High Water Table (ft)	Hydric Soil ³
Udorthents	-	Ub	-	ed-mwd	Cut and fill areas made by human activities	-	-	В
Vergennes silty clay loam	Glossaquic Hapludalfs	VeB	3-8	mwd	Convex slopes on lake plains	Surface runoff is medium	1.0 - 3.0	-
Vergennes silty clay loam	Glossaquic Hapludalfs	VeC	8-15	mwd	Short, convex slopes on lake plains	Surface runoff is medium	1.0 - 3.0	-
Water	N/A	W	NA	Wet	N/A	N/A	N/A	N/A
Wilpoint silty clay loam	Aquic Hapludalfs	WnB	3-8	mwd	Convex slopes	Surface runoff is medium	1.5 - 2.0	-
Wilpoint silty clay loam	Aquic Hapludalfs	WnC	8-15	mwd	Convex, narrow ridges and knolls	Surface runoff is rapid	1.5 - 2.0	-

¹Unless otherwise noted information derived from the Jefferson County, New York soil survey (1989).

²Soil drainage is represented by the following abbreviations: "ed" = excessively drained, "sed" = somewhat excessively drained, "wd" = well drained, "mwd" = moderately well drained, "spd" = somewhat poorly drained, and "vpd" = very poorly drained.

³"A" indicates this soil is considered hydric in New York State, and "B" has the potential for hydric inclusions in New York State (NRCS, 1989, NRCS, 1995).

2.2 HYDROLOGY

The Project Area is located in the Chaumont-Perch drainage basin (USGS Hydrologic Unit 04150102) of the Great Lakes Region, which ultimately drains to the Lake Ontario and the St. Lawrence River. Project Area surface waters, wetlands, and groundwater resources are described below.

The Chaumont River, Perch River, and Perch Lake are the dominant hydrologic features in the vicinity of the Project Area. The Chaumont River, which intersects the northwest corner of the Project Area, flows southwest into Chaumont Bay of Lake Ontario. Perch Lake and its outlet, the Perch River, lie approximately 1 mile southeast of the Project Area. The Perch River also flows southwest, parallel to the Chaumont River, and enters Lake Ontario at Black River Bay. Chaumont Bay and Black River Bay are approximately 4 miles and 6 miles southwest of the Project Area, respectively. Lake Ontario's outlet is the St. Lawrence River, which is approximately 6 miles northwest of the Project Area at the nearest point, ultimately draining into the Atlantic Ocean.

The Project Area contains a number of small ponds and streams. USGS mapping indicates that the Chaumont River (and unnamed tributaries thereof), Buttermilk Creek, Three Mile Creek/Horse Creek, and unnamed tributaries to Stone Mills Creek occur within the Project Area (Figure 4). Buttermilk Creek is tributary to the Chaumont River, Three Mile Creek/Horse Creek flows into Chaumont Bay, and Stone Mills Creek flows into Perch Lake. All of these streams ultimately flow southwest toward Lake Ontario.

Streams in the Project Area, both named and unnamed, are primarily low-gradient drainage features that meander through wetlands, agricultural fields, and pastures. Most of these streams are less than 10 feet wide with variable substrates, and vegetative cover characteristics. Some Project Area streams have well-defined and abrupt banks, while the banks of others transition into adjacent wetland vegetation, and thus are essentially indiscernible. Small farm ponds/open water areas are also interspersed throughout the area. Generally, they are found in open field settings, adjacent to houses and barns, or within wetlands. Water depths, although not verified, are anticipated to be 4 feet or more. They may be used as a source of water for livestock as well as for fishing and aesthetic purposes.

3.0 JURISDICTIONAL AREA MAPPING

3.1 WATERS OF THE UNITED STATES

Waters of the United States as defined by the Corps, include all lakes, ponds, streams, (intermittent and perennial), and wetlands. Wetlands, as referenced in this narrative, are defined in Section 404 of the *Clean Water Act* as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and under normal circumstances do support a relevance of vegetation typically adapted for life in saturated soil conditions" (EPA, 2001). Jurisdictional wetlands are defined by the presence of three criteria: hydrophytic vegetation, hydric soils, and evidence of wetland hydrology during the growing season (Environmental Laboratory, 1987). However, as a result of the *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers* Supreme Court case (No. 99-1178; January 9, 2001), it has been determined that the Corps does not have jurisdictional authority over waters that are "non-navigable, isolated, and intrastate" (EPA, 2001). Ultimately, the jurisdictional status of all delineated waters will be determined during a field visit with a Buffalo District Corps representative.

Review of NWI mapping indicates that there are 116 federally-mapped wetlands located within and adjacent to the Project Area. The federally mapped wetlands are identified in Figure 5. While many of these wetlands occur along streams and rivers, a number of them occur in depressional areas scattered throughout the Project Area. The NWI maps indicate that emergent wetlands are the dominant wetland type within the Project Area, totaling approximately 88 acres. Broad-leaved forested wetlands and broad-leaved deciduous scrub-shrub wetlands are also prevalent totaling approximately 51 acres and 15 acres respectively. Less common wetland types (in terms of acreage within the Project Area) include but are not limited to unconsolidated bottom impoundments (farm ponds), scrub-shrub/forested wetlands, and the Chaumont River is mapped as a riverine unconsolidated bottom wetland. Altogether, the NWI mapping indicates approximately 240 acres of wetlands located within the Project Area.

3.2 NEW YORK STATE FRESHWATER WETLANDS & PROTECTED STREAMS

The Freshwater Wetlands Act (Article 24 and Title 23 of Article 71 of the Environmental Conservation Law) gives the NYSDEC jurisdiction over state-protected wetlands and adjacent areas (100-foot upland buffer). The Freshwater Wetlands Act requires the NYSDEC to map all state-protected wetlands (typically over 12.4 acres in size) to allow landowners and other interested parties a means to determine where state jurisdictional wetlands exist. Review of NYSDEC mapping indicates that there are a number of wetlands located within river valleys in the vicinity of the Project Area that are regulated under Article 24 of the Environmental Conservation Law. The state-regulated wetlands are identified in Figure 6. State-regulated

wetland L-14, associated with a tributary of Stone Mills Creek, is designated as a Class III wetland by the NYSDEC. While this wetland totals 94 acres in size, only 35.6 acres occur within the Project Area. State-regulated wetland complex BV-1 is also noteworthy due to its large size and adjacency to the Project Area (approximately 1,000 feet away at the nearest point). This Class I wetland includes Perch Lake and a portion of the Perch River and is approximately 5,800 acres in size.

Under Article 15 of the Environmental Conservation Law (Protection of Waters), the NYSDEC has regulatory jurisdiction over any activity that disturbs the bed or banks of protected streams. In addition, small lakes and ponds with a surface area of 10 acres or less, located within the course of a stream, are considered to be part of a stream and are subject to regulation under the stream protection category of Article 15. Protected stream means any stream, or particular portion of a stream, that has been assigned by the NYSDEC any of the following classifications or standards: AA, AA(t), A, A(t), B, B(t) or C(t) (6 NYCRR Part 701). A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The best usages of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing. Streams designated (t) indicate that they support trout, and also include those more specifically designated (ts) which support trout spawning. State water quality classifications of watercourses within the Project Area fall into two categories of unprotected streams, Class C and Class D streams. Classification D is unprotected waters and suitable for fishing and non-contact recreation. These streams, along with all other perennial and intermittent streams in the Project Area, are also protected by the Corps under Section 404 of the Clean Water Act. No streams occur within the Project Area that are regulated by Section 10 of the Rivers and Harbors Act of 1899 (navigable waters). All Project Area streams are classified by the NYSDEC as Class C waters, indicating that they are suitable for non-contact activities and supporting fisheries. Class C waters are not subject to regulation under the stream protection category of the Environmental Conservation Law, Article 15 (Protection of Waters) (See Figure 4).

4.0 JURISDICTIONAL AREA DELINEATION

4.1 METHODOLOGY

edr personnel performed identification and delineation of wetlands and streams in areas proposed for wind power development during the fall 2007 and 2010 growing seasons. Field investigations were performed only on wetlands and streams with proposed impacts resulting from Project components; including turbines, turbine workspaces, access roads, substation, O&M building, potential laydown areas, public road

intersections (for potential widening/improvements), and buried electrical interconnect. The Survey Area was created for wetland delineation fieldwork that focused on specific areas that included a 200 foot corridor for the buried interconnect, 100 foot offset from the edges of access roads, a 200 foot radius for turbines, a 200 foot radius for potential existing road intersections, the proposed disturbance area of associated facilities such as the O&M Building, and the interconnect switch station. The Survey Area also includes various project component alternatives that were investigated as a part of the wetland delineation fieldwork.

In 2007, the determination of wetland boundaries was made by edr personnel according to the three-parameter methodology presented in the 1987 Corps of Engineers Wetland Delineation Manual (hereafter referred to as the 1987 Manual) (Environmental Laboratory, 1987). During the 2010 field surveys, methodologies presented in the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (hereafter referred to as the Regional Supplement) (2009) were utilized in the determination of wetland boundaries. Attention was also given to the identification of potential hydrologic connections between wetlands and areas that could influence their jurisdictional status.

Wetland boundaries were defined in the field with sequentially-numbered pink surveyor's flagging, which was subsequently mapped using a Trimble Pathfinder® Pro XR GPS unit with reported sub-meter accuracy. Data was collected from one or more sample plots in each delineated wetland (depending on the size of the delineated area), and was recorded on Corps *Routine Wetland Determination Forms* (during the 2007 surveys) and the *Regional Supplement Routine Wetland Determination Forms* (during the 2010 surveys) (Appendix B). The data collected for each of the wetlands delineated by edr personnel included vegetation, hydrology indicators, and soils characteristics. This methodology was applied to all wetlands and streams delineated within the Survey Area.

The wetland vegetative community data collection process focused on dominant plant species in four categories: trees (>3" diameter at breast height), saplings/shrubs (<3.0" diameter at breast height and >3.2' tall), herbs (<3.2' tall), and woody vines. Dominance was measured by visually estimating those species having the largest relative basal area (trees), greatest height (saplings/shrubs), greatest number of stems (woody vines), and greatest percentage of aerial coverage (herbaceous) by species. Dominant species for each stratum in the plant community were identified for all wetland delineations within the Project Area. The dominant species from each category are defined as those plants with the highest ranking which, when cumulatively totaled, exceeds 50 percent of the total dominance measure for that category, plus any

additional plant species comprising 20 percent or more of the total dominance measure for the category. The species were rank ordered for each category by decreasing value of percent cover.

Soils data were collected by **edr** personnel using a Dutch soil auger. Information concerning soil series, subgroup, drainage classification, texture, and matrix and mottle color was obtained for each delineated wetland. This information was used to determine whether the soils displayed hydric characteristics. Hydric soils are those that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil layer. Hydric soils are poorly drained, and their presence is indicative of the likely occurrence of wetlands (Environmental Laboratory, 1987). Hydric soils were determined in the field through observation of composition, color, and morphology. Soil colors were determined using *Munsell Soil Charts* (Kollmorgen Corp., 1988).

As stated, the 2007 delineation effort was based on the 1987 manual which the following indicators as evidence of wetland hydrology (in order of decreasing reliability): (1) visual observation of inundation, (2) visual observation of soil saturation, (3) water marks, (4) drift lines, (5) sediment deposits, and (6) drainage patterns. The Regional Supplement includes a number of additional "primary indicators" of wetland hydrology and any one of these indicators is sufficient evidence that wetland hydrology is present when combined with a hydrophytic plant community and hydric soils. Hydrologic characteristics (inundation and soil saturation) were visually assessed to a depth of 12 inches. In addition, a number of "secondary indicators" were used by edr personnel including (from the 1987 Manual): (1) oxidized root channels in the upper 12 inches of soil, (2) water-stained leaves, (3) local soil survey data, and (4) morphological plant adaptations. Examples of secondary indicators noted in the Regional Supplement include surface soil cracks, geomorphic position, and saturation visible on aerial imagery. Any two of these indicates the presence of wetland hydrology.

Representative photographs were taken of each delineated wetland and stream within the Survey Area and are included in Appendix C.

5.0 RESULTS

edr personnel delineated a total of 61 wetlands and 22 streams within the Survey Area. Information pertaining to individual wetlands is summarized in Table 2.

In general, delineated wetlands and streams can be categorized as one or a combination of the following six types: 1) emergent wetland, 2) scrub-shrub wetland, 3) forested wetland, or 4) streams (ephemeral, intermittent and perennial). Wetland types were classified according to the Cowardin classification (Cowardin, L.M., V. Carter, F.C. Goblet and E.T. LaRoae, 1979). All delineated wetlands and streams are depicted in Figure 7, and descriptions of each of the communities are described in Section 5.1 below.

Table 2. Delineated Wetlands and Streams

Wetland/Stream ID	Community Type	Federal Jurisdiction (Yes/No/Undetermined) 1	Reference Sheet #		
A	Emergent/Intermittent Stream	Yes	8		
В	Scrub Shrub/Intermittent Stream	Yes	6		
С	Emergent	No	5		
D	Emergent/Scrub Shrub	Yes	1		
E	Forested	Yes	1		
F	Emergent (Active Pasture)	No	1		
G	Intermittent Stream	Yes	1		
Н	Forested	No	1		
1	Scrub Shrub	Yes	1		
J	Emergent	No	8		
K	Emergent	Yes	8		
L	Scrub Shrub	Yes	3		
M	Emergent	No	10		
N	Emergent	Yes	10		
0	Intermittent Stream	Yes	6		
Р	Emergent	No	7		
Q	Intermittent Stream	Yes	3		
R	Emergent/Intermittent Stream	Yes	5		
S	Forested/Farm Pond/ Perennial Stream	Yes	6		
SA	Perennial Stream	Yes	6		
SB	Scrub Shrub	Yes	6		
Т	Emergent/Forested/Intermittent Stream	Yes	3		
U	Intermittent Stream	Yes	2		
V	Emergent	Yes	8		
W	Scrub Shrub	No	8		
Χ	Intermittent Stream	Yes	8		
Υ	Emergent/Forested/Perennial Stream	Yes	8		
Z	Emergent	Yes	9		
AA	Emergent	Yes	2		
BB	Scrub Shrub	No	2		
CC	Scrub Shrub	Yes	3		
DD	Emergent	Yes	10		
EE	Emergent/Scrub Shrub	No	10		
FF	Emergent/Scrub Shrub	No	10		
GG	Intermittent Stream	Yes	6		
HH	Intermittent Stream	Yes	6		
II	Scrub Shrub	Yes	7		

Wetland/Stream ID	Community Type	Federal Jurisdiction (Yes/No/Undetermined) 1	Reference Sheet #	
JJ	Emergent/Scrub Shrub/Ephemeral stream	Yes	2	
KK	Emergent	Yes	7	
LL	Scrub Shrub	Yes	7	
MM	Emergent/Scrub Shrub	Yes	7	
NN	Forested/Scrub Shrub	Yes	7	
00	Emergent	No	6	
PP	Scrub Shrub	No	3	
QQ	Scrub Shrub	Yes	3	
RR	Scrub Shrub	Yes	4	
SS	Scrub Shrub	Yes	6	
TT	Emergent/Scrub Shrub	Yes	1	
UU	Forested	No	1	
VV	Scrub Shrub/Forested/ Perennial Stream	Yes	7	
WW	Emergent	Yes	11	
XX	Emergent	Yes	9	
YY	Intermittent Stream	Yes	5	
ZZ	Emergent/Farm Pond	Yes	6	
AAA	Forested/Scrub Shrub	No	4	
BBB	Forested	Yes	3	
CCC	Intermittent Stream	Yes	3	
DDD	Scrub Shrub/Intermittent Stream	Yes	3	
EEE	Emergent/Intermittent Stream	Yes	6	
FFF	Scrub Shrub/Intermittent Stream	Yes	7	
GGG	Forested	Yes	1	
HHH	Forested	Yes	1	
III	Emergent/Scrub Shrub	Yes	1	
JJJ	Scrub Shrub/Emergent	No	1	
KKK	Scrub Shrub/Emergent	No	1	
LLL	Emergent/Scrub Shrub	Yes	1	
MMM	Emergent	Yes	1	
NNN	Forested/Scrub Shrub	Yes	4	
000	Emergent/Scrub Shrub/Forested/Intermittent Stream	Yes	4	

¹ Based on NWI mapping and visual observation of hydrologic connectivity in the field. Final jurisdictional determination to be made by Corps.

5.1 WETLANDS

Emergent wetland – The majority of wetlands delineated within the Survey Area are emergent (31) or are partially emergent. Emergent wetlands occur where surface water collects in shallow basins and/or adjacent to open water. These wetlands are characterized by more persistent and/or deeper inundation, often containing soils that remain inundated throughout the year. Although the Cowardin classification was used to classify wetlands, some of the emergent wetlands in this category could be best described

according to the Reschke definition as wet meadow (Reschke, C., 1990). Wet meadow wetlands are usually found in poorly drained, low-lying depressional areas. Wet meadow wetlands may resemble grasslands and are typically drier than other marshes, except during periods of seasonal high water. They generally lack standing water for most of the year, though snow melt, stormwater runoff, and/or a high water table allows the soil to remain saturated for a significant portion of the growing season.

Emergent wetlands within the Survey Area are dominated by herbaceous plants such as cattails (*Typha latifolia.*), rushes (*Juncus sp.*), wetland grasses, asters, goldenrods (*Solidago sp.*), and sedges. The soils are unsaturated but moist within 16 inches with a silt clay texture and generally characterized by a low chroma value of 10YR 3/1 and 10YR 3/2. Evidence of oxidized root channels and morphological plant adaptations (hummocks) occur throughout the many o the emergent wetlands identified within the Survey Area.

Scrub-shrub wetland – A total of thirty (30) wetlands within the Survey Area were found to be completely or partially scrub shrub. Scrub-shrub wetlands within the Survey Area are characterized by dense stands of shrub species less than 20 feet tall, including willow (Salix sp.), red osier dogwood (Cornus stolonifera), gray dogwood (Cornus racemosa), and meadowsweet (Spiraea sp.). Herbaceous vegetation in these areas includes a mix of upland and wetland species, but is typically dominated by spotted jewelweed (Impatiens capensis), sensitive fern (Onoclea sensibilis), sedges (Carex sp.), canary reed grass (Phalaris arundinacea), wool grass (Scirpus cyperinus), green bulrush (Scirpus atrovirens), field horsetail (Equisetum arvense), sphagnum moss (Sphagnum fallax), and goldenrods (solidago sp.). The soils are unsaturated but moist within 16 inches with a clay texture and characterized by low chroma values of 10YR 3/1, 10YR 4/1, and 10YR 5/2. Evidence of water-stained leaves, oxidized root channels, and morphological plant adaptations (hummocks) occur throughout this wetland community.

Forested wetland – Forested wetland communities are dominated by trees that are 20 feet or taller, but also include an understory of shrub and herbaceous species. The thirteen (13) forested wetlands or partially forested wetlands within the Survey Area include a mix of hydrophytic trees such as American elm (Ulmus americana), green ash (Fraxinus pennsylvanica), and red maple (Acer rubrum), and shrub species such as gray dogwood, red osier dogwood, meadowsweet, winterberry (Ilex verticillata), blackberry (Rubus sp.), and highbush blueberry (Vaccinium corymbosum). Herbaceous species include asters, wetland sedges, wetland grasses, green bulrush, wool grass, sphagnum moss, soft rush (Juncus effusus) and in some instances the state protected white turtlehead (Chelone glabra.). The soils within forested wetlands have a silt loam to clay texture with an organic layer and are characterized by a low chroma value of 10YR 2/1 to

10YR 7/1. Evidence of saturated soils, water marks, drainage patterns, oxidized root channels, water-stained leaves, and morphological plant adaptations occur throughout these wetlands.

Farm Ponds - A few small farm ponds and recreation ponds are found within the Survey Area. Generally, they are found in open field settings or adjacent to houses and barns. Typically, these ponds are excavated or diked, and range in size from 0.07 to 0.94 acre. Banks are typically well defined and emergent wetland vegetation tends to be limited or lacking. Although not verified, water depths are expected to be consistent with excavated ponds that are used as a source of water for livestock as well as for fishing and aesthetic purposes. Such ponds are typically a minimum of 4 feet deep.

5.2 STREAMS

As indicated in Table 2, edr personnel delineated a total of twenty-two (22) streams (ephemeral, intermittent, and perennial) within the Survey Area. Identified streams are gentle gradient (0-3%) streams that are located amongst agricultural fields, white spruce forests, and old-field communities. Most of the delineated streams are intermittent, with a silt clay substrate. In some locations, stream channels have eroded into limestone bedrock due to the underlying karst topography. During the 2007 surveys, the majority of streambeds were dry at the time of the field investigation due to the lack of adequate precipitation. However, during the 2010 surveys, the majority of streambeds were wet at the time due to an abundance of precipitation prior to and during the investigations. Water depths within the channels with stream flow averaged 3-5 inches in 2007 and 3-8 inches in 2010. The ephemeral channel associated with wetland system JJ is considered jurisdictional due to the fact that it serves as a hydrological conveyance between two (2) wetlands.

6.0 CONCLUSIONS

A total of sixty-nine (69) wetlands and streams were delineated by edr personnel in areas within or immediately adjacent to the Survey Area. These wetlands were identified based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. The delineated areas include emergent, scrubshrub, and forested wetlands, and streams (ephemeral, intermittent and perennial). The primary functions provided by these wetlands appear to include maintaining surface water flows, recharging groundwater supplies, storm water retention, flood protection and abatement, water quality improvement, wildlife habitat, and nutrient production and cycling. Several of the larger forested wetlands provide habitat for forestnesting songbirds. Many of the delineated wetlands are portions of much larger systems, which may

provide significant functions and values. Additional detail relative to the functions and values of the delineated wetlands will be provided in the Joint Application for Permit, which will be submitted to the Corps and NYSDEC concurrent to this report.

Of the sixty-nine (69) wetlands and streams delineated within the Survey Area, it is likely that some of these may not be considered jurisdictional by the Corps due to the lack of a definable surface water connection to likely jurisdictional wetlands/waters. However, a final determination of jurisdictional status must be made by the Corps.

7.0 REFERENCES

Benyus, Janine M. 1989. *The Field Guide to Wildlife Habitats of the Eastern United States*. Simon & Schuster Inc., New York, NY.

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.

Environmental Laboratory. 1987. *Corps of Engineers Wetland Delineation Manual.* Technical Report Y-87-1. U.S. Army Corps of Engineers: Waterways Experiment Station; Vicksburg, MS.

Environmental Laboratory. 2009. *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region.* Technical Report TR-09-19/ U.S. Army Corps of Engineers: Engineering Research and Development Center

Gleason, H.A. and A. Cronquist. 1991. *Manual of Vascular Plants of Northeastern United States and Adjacent Canada*. D. Van Nostrand Co., New York, NY.

Grimm, William Carey. 1993. *The Illustrated Book of Wildflowers and Shrubs: The Comprehensive Field Guide to More Than 1300 Plants of Eastern North America*. Stackpole Books. Mechanicsburg, PA.

Kollmorgen Corporation. 1988. *Munsell Soil Color Charts.* Macbeth Division of Kollmorgen Corporation, Baltimore, MD.

Natural Resources Conservation Service. 1989. New York Soils With Potential Hydric Inclusions.

Natural Resources Conservation Service. 1995. *Hydric Soils of New York*. Revised December 15, 1995.

Newcomb, L. 1977. Newcomb's Wildflower Guide. Little, Brown and Co., Boston, MA.

Reed, P.B., Jr. 1986. *Wetland Plants of the State of New York.* U.S. Fish & Wildlife Service, St. Petersburg, FL.

Reed, P.B., Jr. 1988. *National List of Plant Species That Occur in Wetlands: Northeast (Region 1).* U.S. Fish & Wildlife Botanical Report, No. 88 (24). St. Petersburg, FL.

Reschke, C. 1990. *Ecological Communities of New York State*. New York Natural Heritage Program, New York State Department of Environmental Conservation, Latham, NY.

Tiner, Ralph W. 1999. Wetland Indicators: A Guide to Wetland Identification, Delineation, Classification and Mapping. Lewis Publishers, New York, NY.

USDA NRCS 1989. *Soil Survey of Jefferson County, New York.* USDA Soil Conservation Service in Cooperation with Cornell University Agricultural Experiment Station, Washington, D.C.

United States Environmental Protection Agency (EPA). 2001. Interagency Memorandum from Gary S. Guzy (General Counsel for the U.S. Environmental Protection Agency) and Robert M. Anderson (Chief Counsel for the U.S. Army Corps of Engineers). Memorandum Subject: *Supreme Court Ruling Concerning CWA Jurisdiction over Isolated Waters*.

APPENDIX A

FIGURES

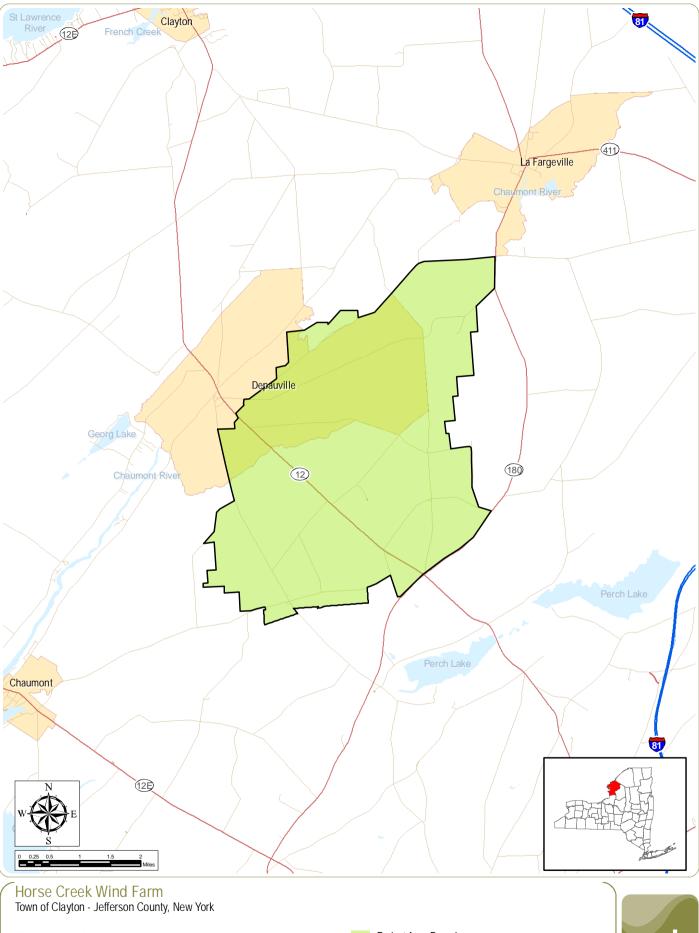


Figure 1: Project Location
January 2011



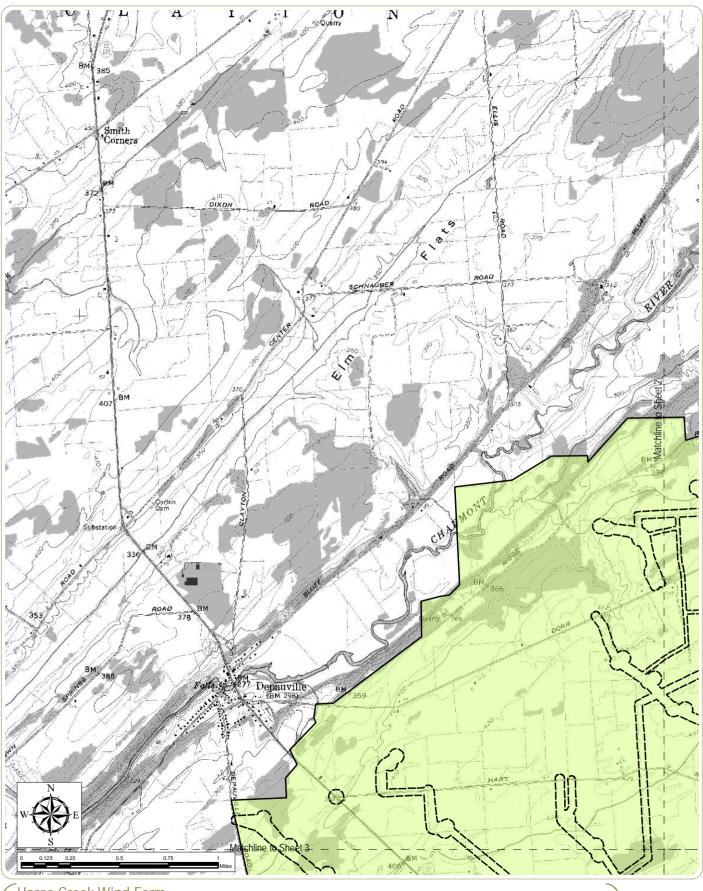
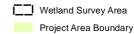


Figure 2: USGS Site Topography Sheet 1 of 4





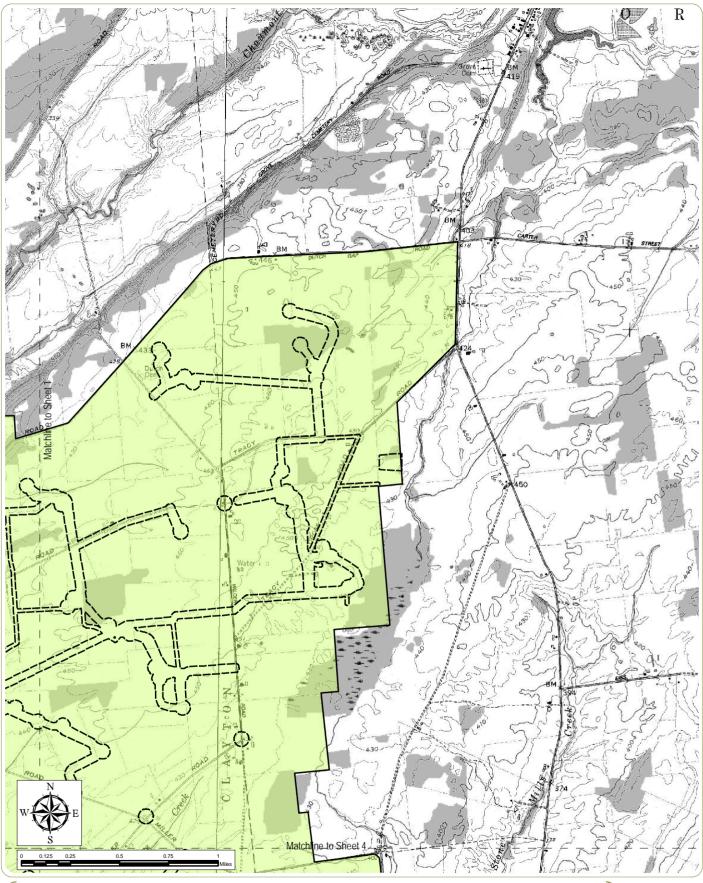


Figure 2: USGS Site Topography Sheet 2 of 4





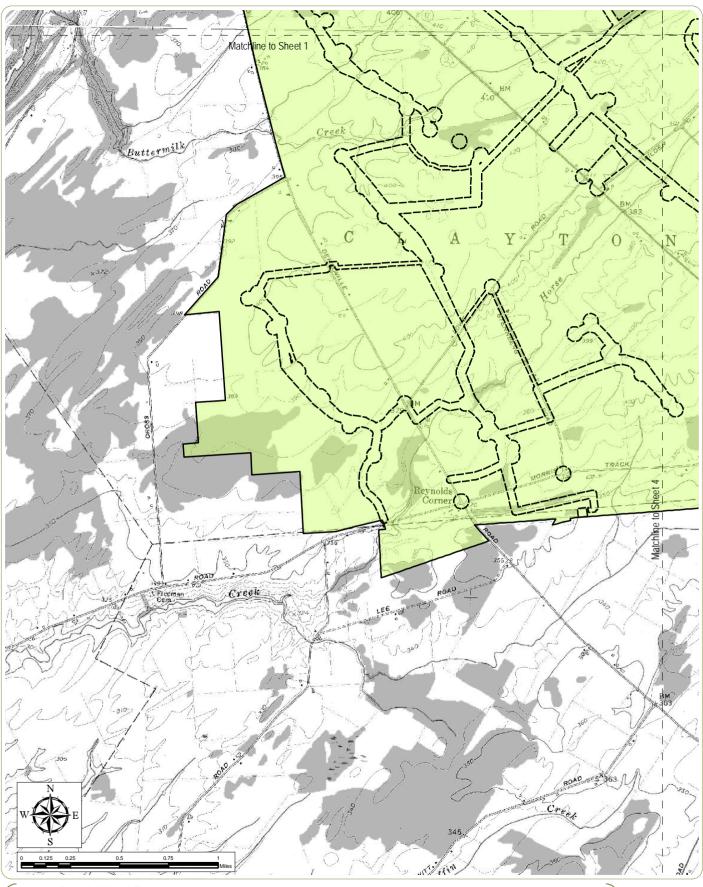


Figure 2: USGS Site Topography Sheet 3 of 4





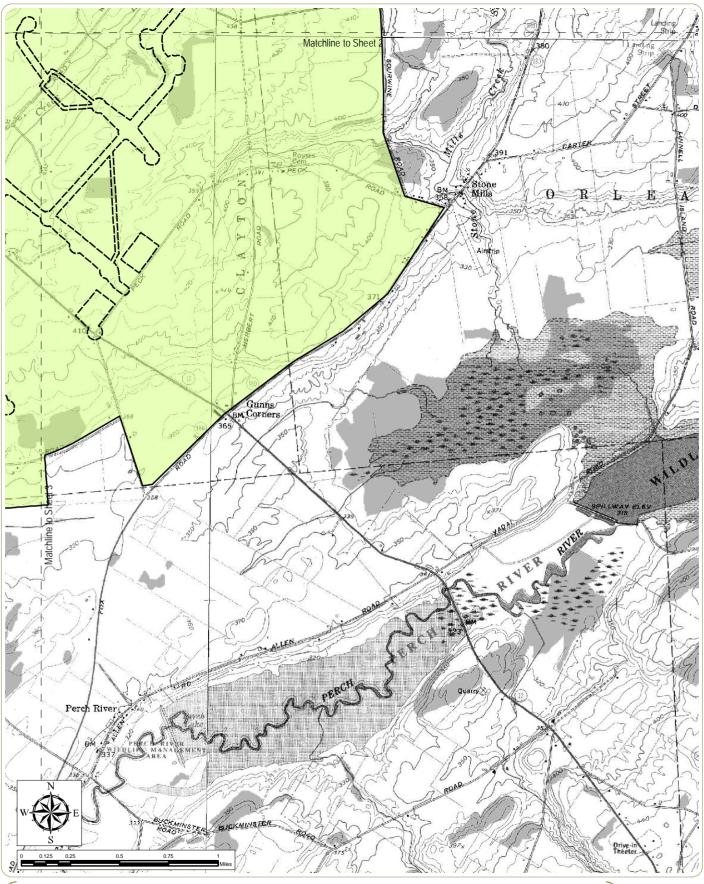


Figure 2: USGS Site Topography Sheet 4 of 4





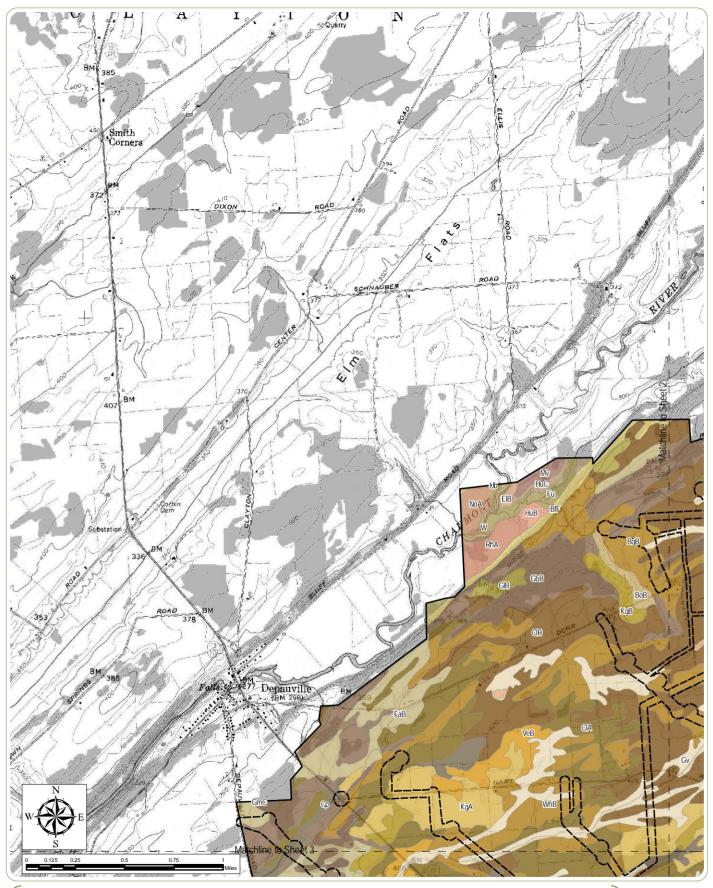


Figure 3: Project Area Soils Sheet 1 of 4

January 2011
Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

Wetland Survey Area



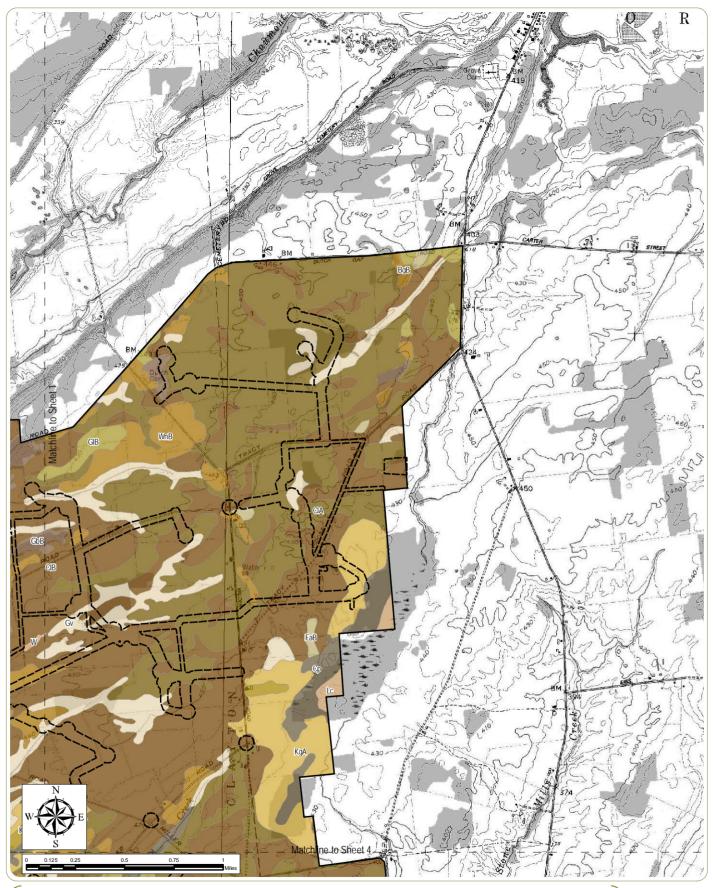


Figure 3: Project Area Soils Sheet 2 of 4

January 2011
Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

Wetland Survey Area



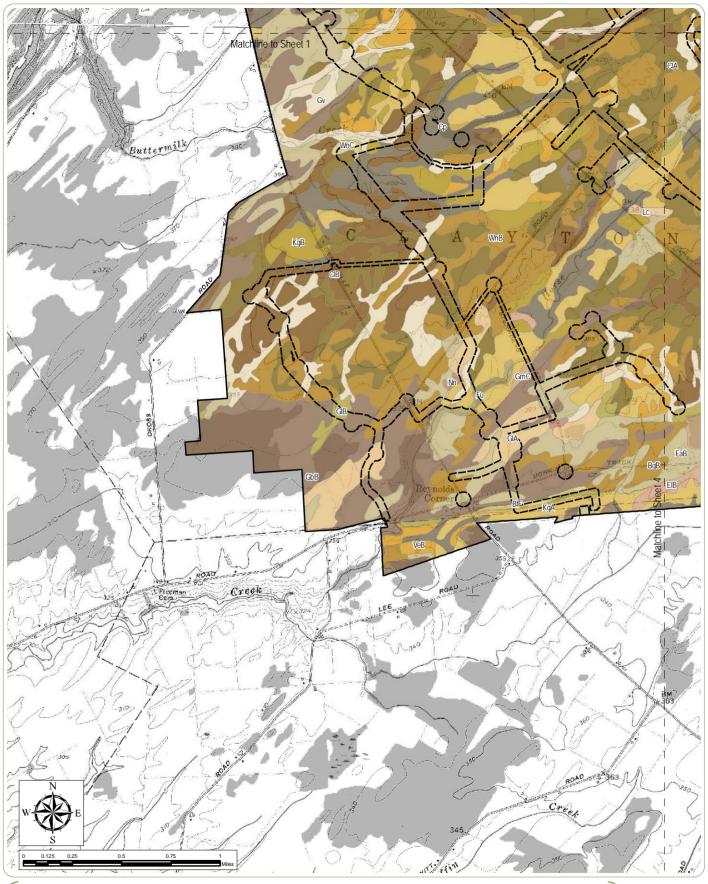


Figure 3: Project Area Soils Sheet 3 of 4

January 2011
Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

Wetland Survey Area



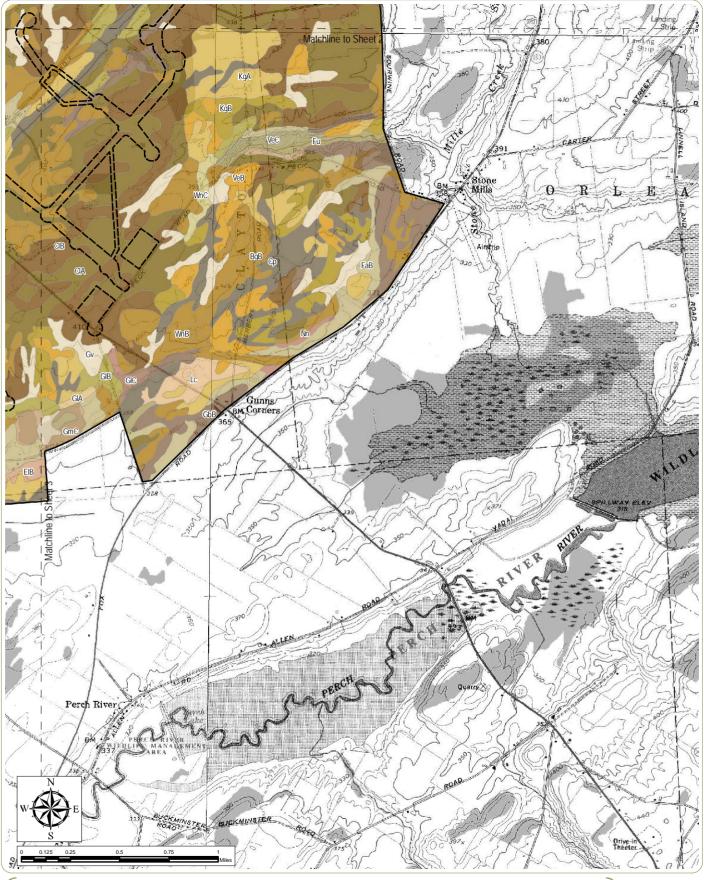


Figure 3: Project Area Soils Sheet 4 of 4

January 2011
Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

Wetland Survey Area



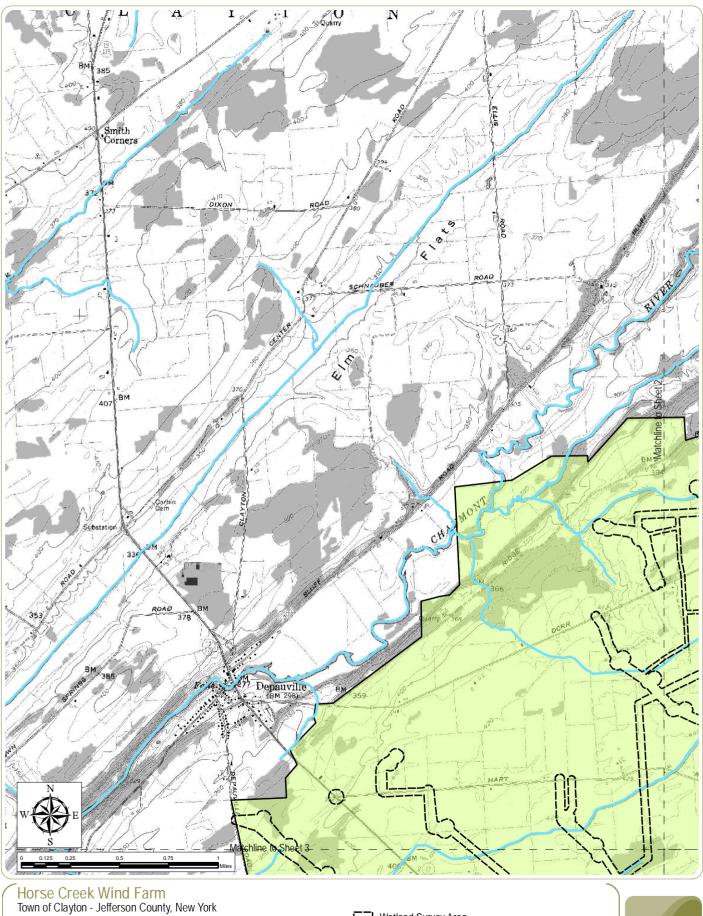


Figure 4: Surface Waters Sheet 1 of 4

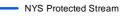
January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary

Unprotected Stream





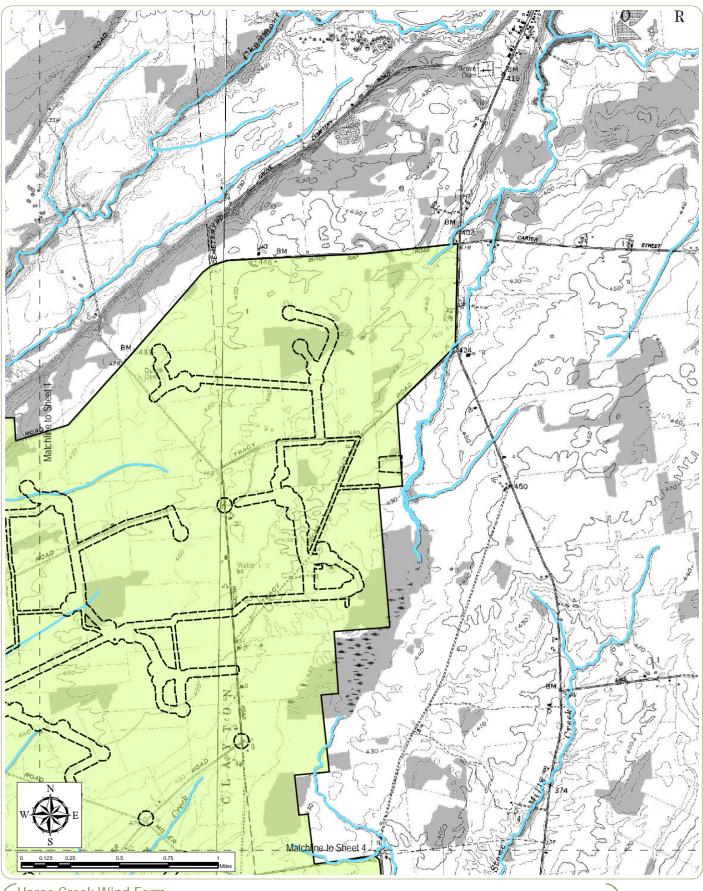


Figure 4: Surface Waters Sheet 2 of 4

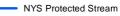
January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary

Unprotected Stream





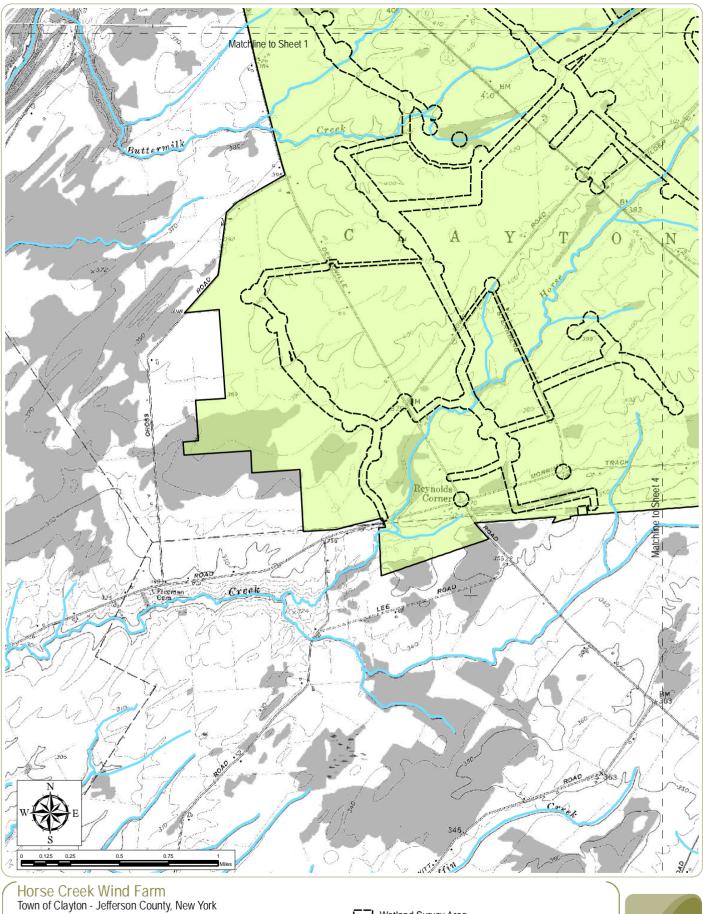


Figure 4: Surface Waters Sheet 3 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary

Unprotected Stream NYS Protected Stream



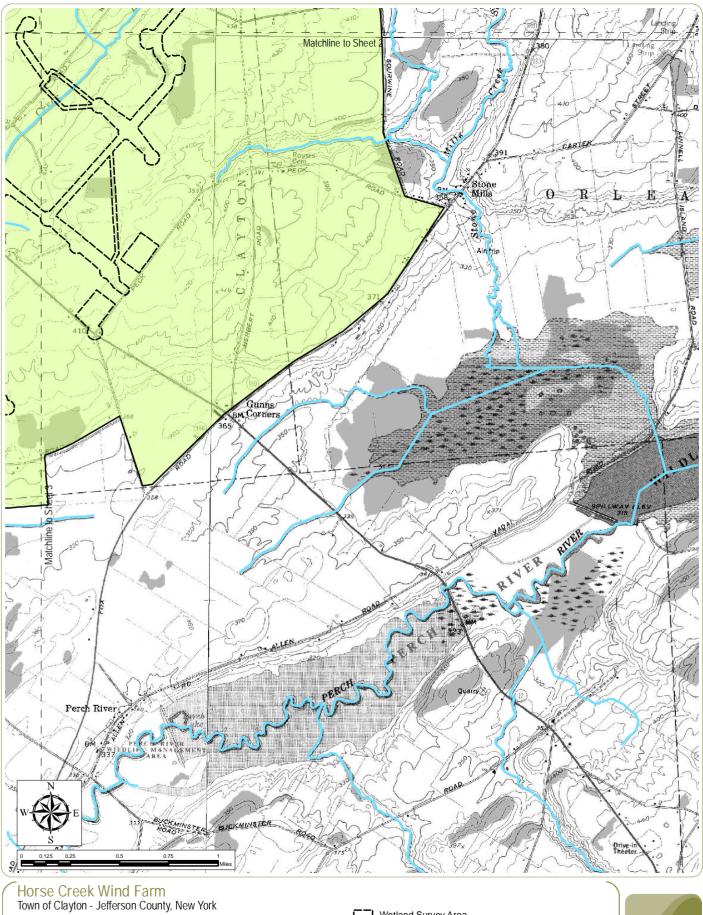


Figure 4: Surface Waters Sheet 4 of 4

January 2011

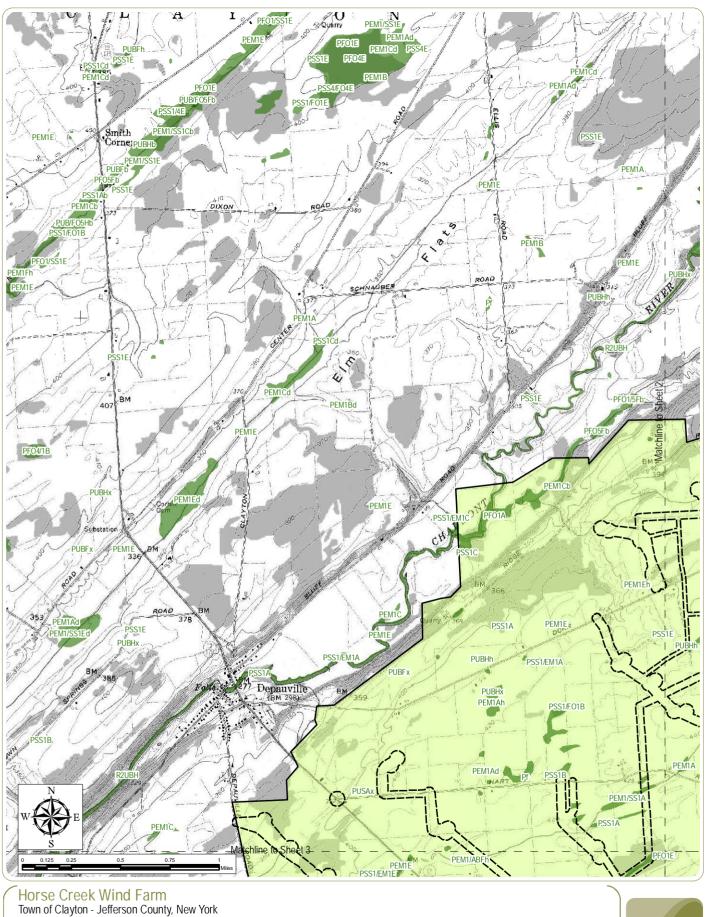
Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary

Unprotected Stream NYS Protected Stream





Town of Clayton - Jefferson County, New York Figure 5: National Wetland Inventory Sheet 1 of 4 January 2011 Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

Wetland Survey Area
Project Area Boundary
NWI Wetland



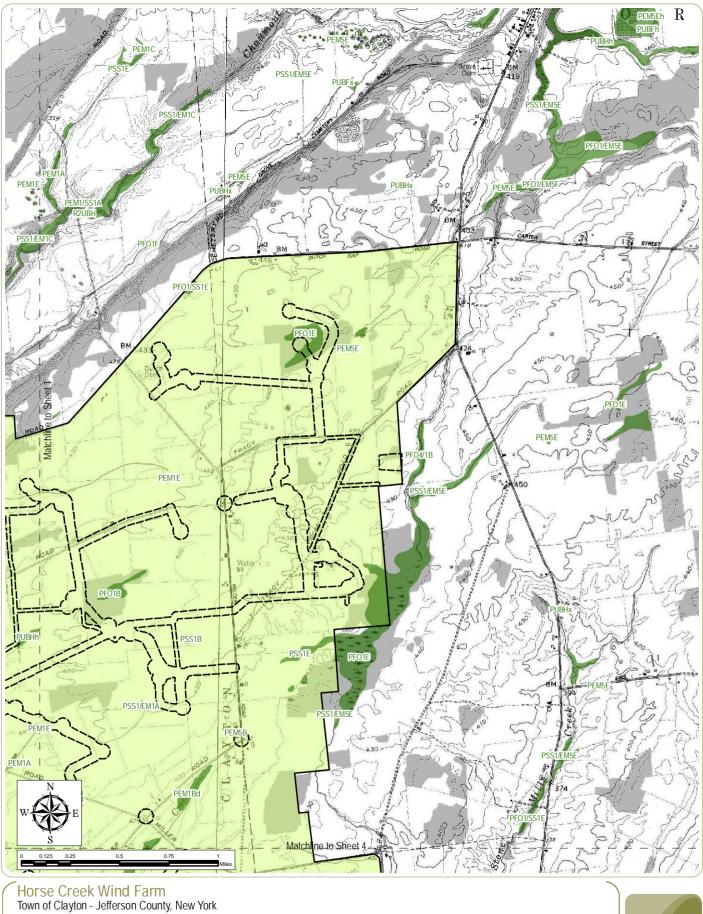


Figure 5: National Wetland Inventory Sheet 2 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary

NWI Wetland



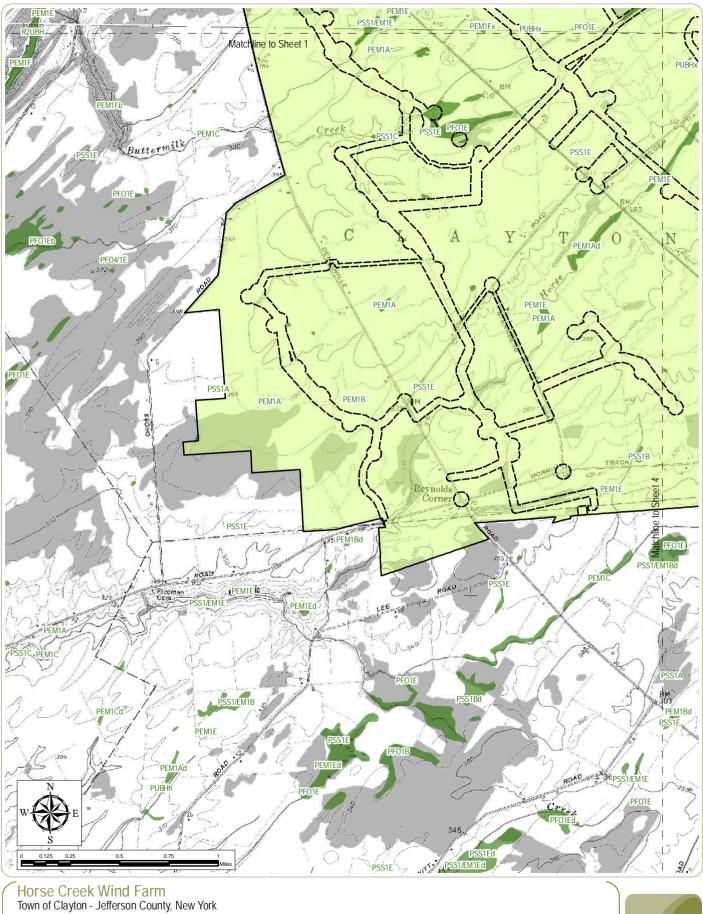


Figure 5: National Wetland Inventory Sheet 3 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary





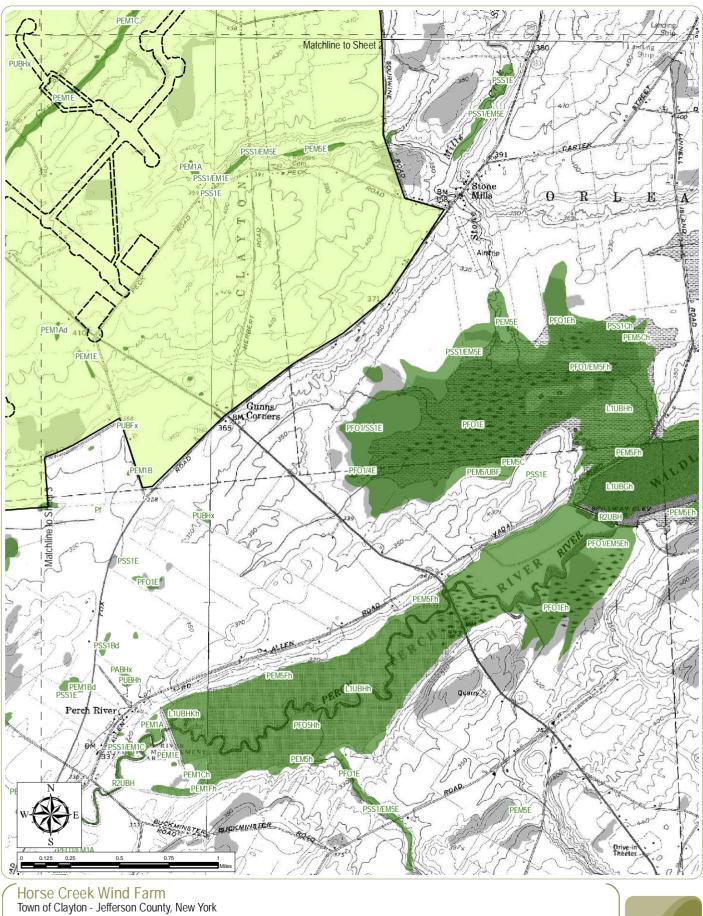


Figure 5: National Wetland Inventory Sheet 4 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary





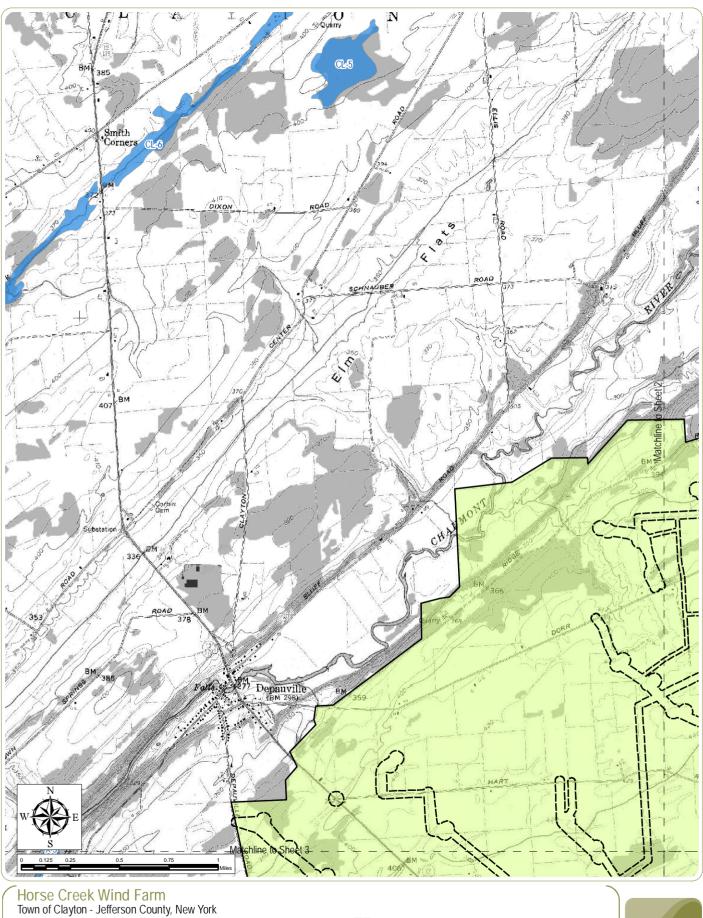
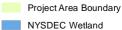


Figure 6: State Mapped Freshwater Wetlands Sheet 1 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.







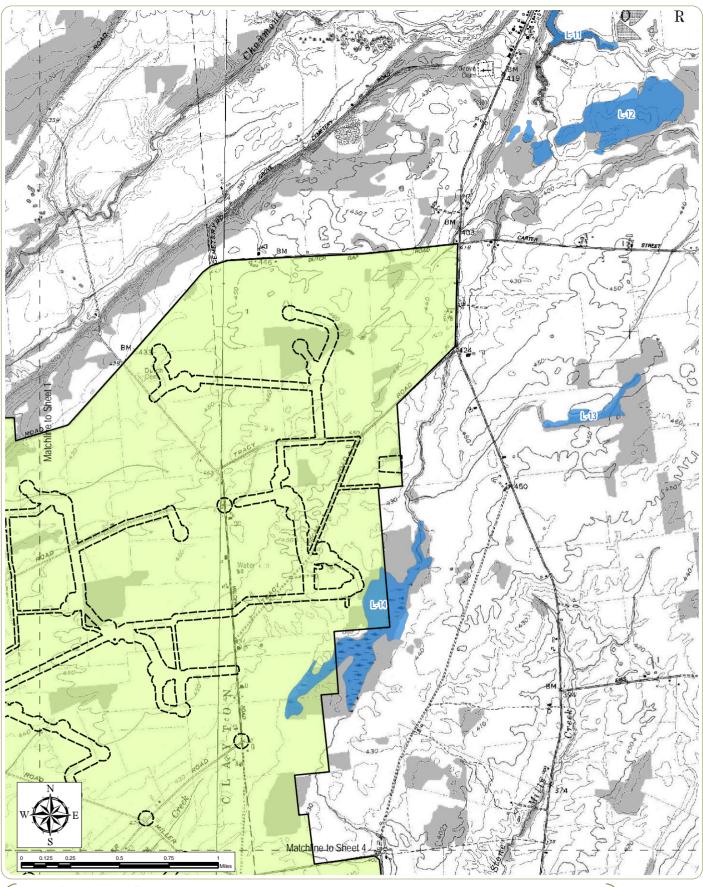
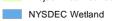


Figure 6: State Mapped Freshwater Wetlands Sheet 2 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area Project Area Boundary





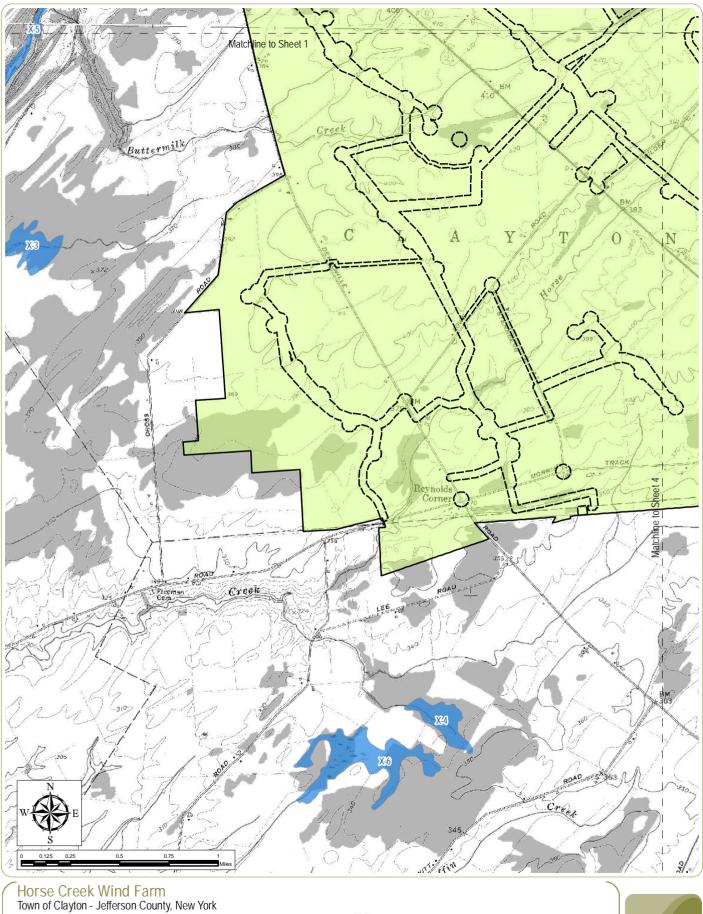
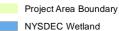


Figure 6: State Mapped Freshwater Wetlands Sheet 3 of 4

January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.







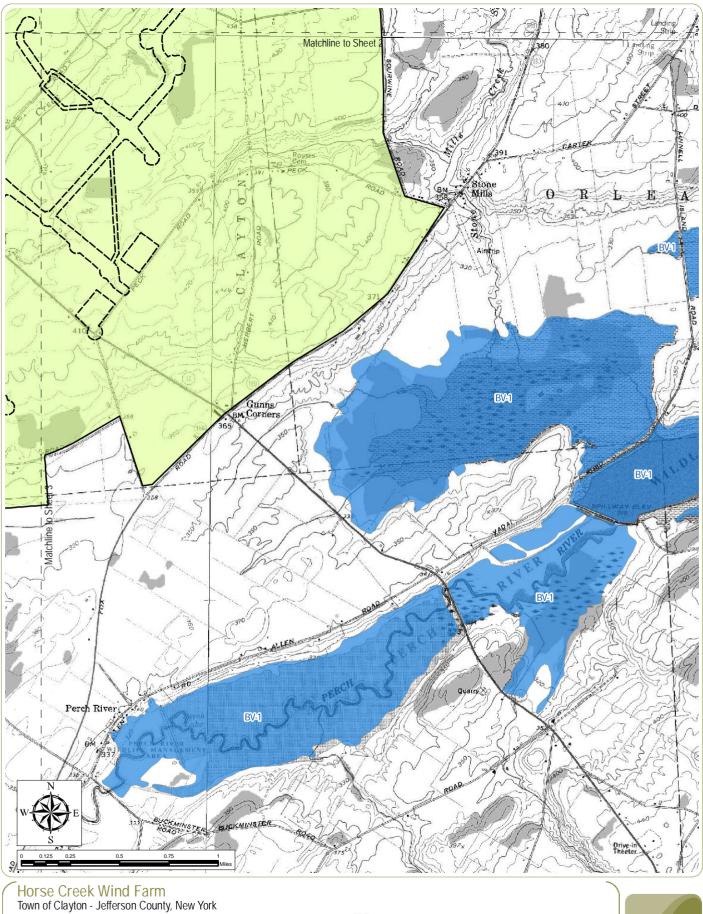


Figure 6: State Mapped Freshwater Wetlands Sheet 4 of 4

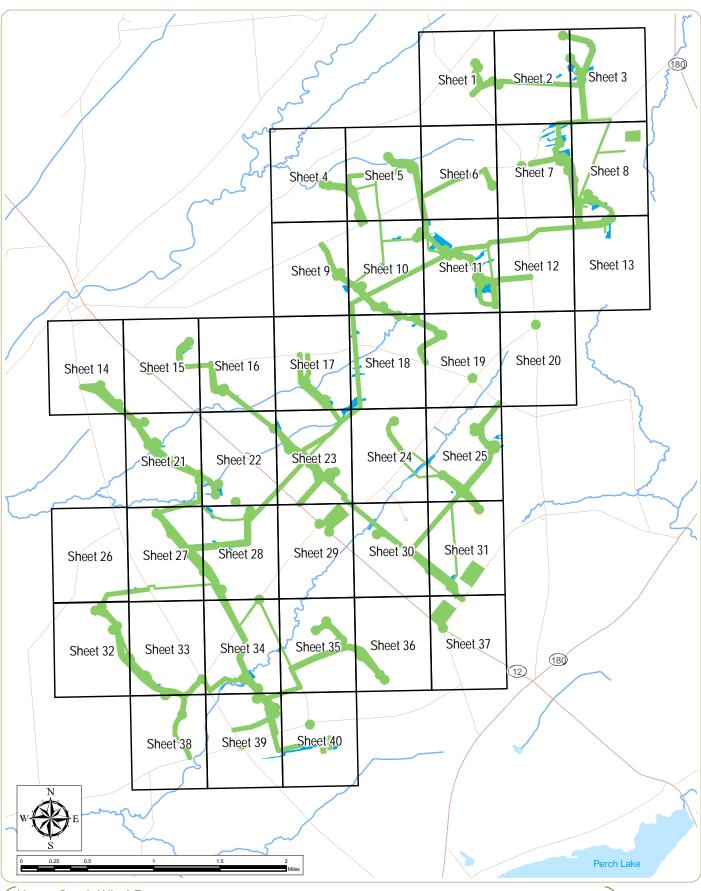
January 2011

Notes: Base Map: USGS 1:24,000 Brownsville, Clayton, Dexter, and LaFargeville quadrangles, rendered black and white.

■ Wetland Survey Area

Project Area Boundary NYSDEC Wetland





Horse Creek Wind Farm

Town of Clayton - Jefferson County, New York

Figure 7: Delineated Wetlands Sheet Index January 2011

Notes: Base Map: ESRI StreetMap North America, 2008.





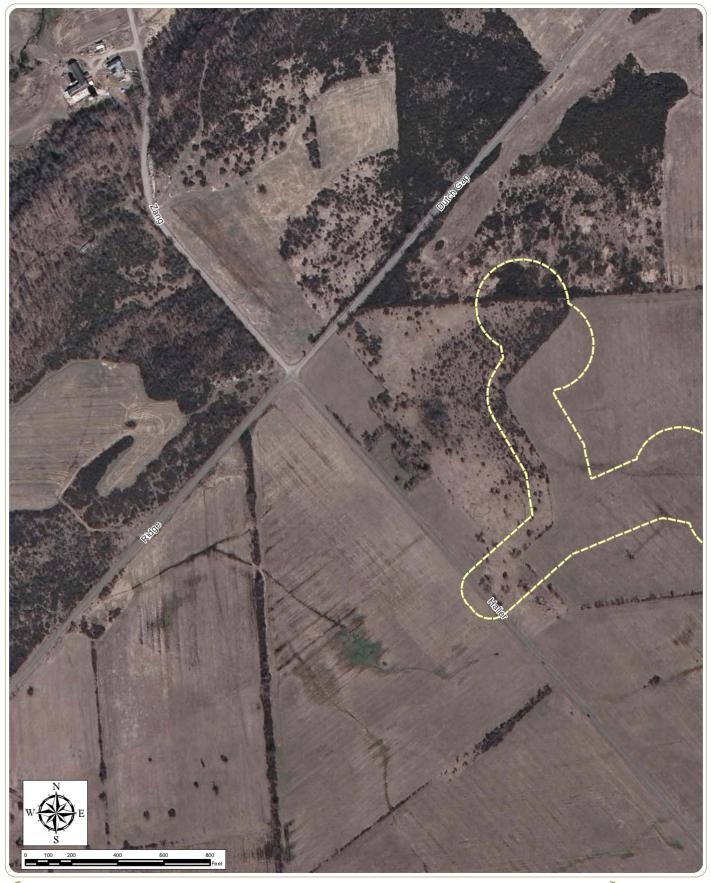
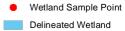


Figure 7: Delineated Wetlands Sheet 1 of 40

January 2011



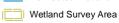
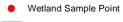




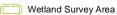


Figure 7: Delineated Wetlands Sheet 2 of 40

January 2011









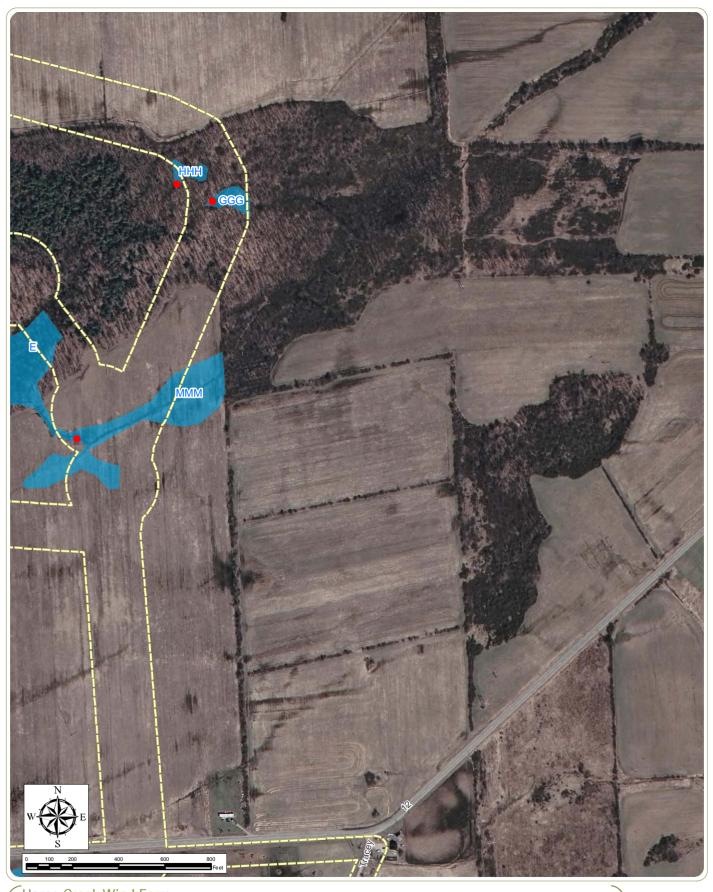
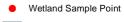
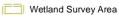


Figure 7: Delineated Wetlands Sheet 3 of 40

January 2011









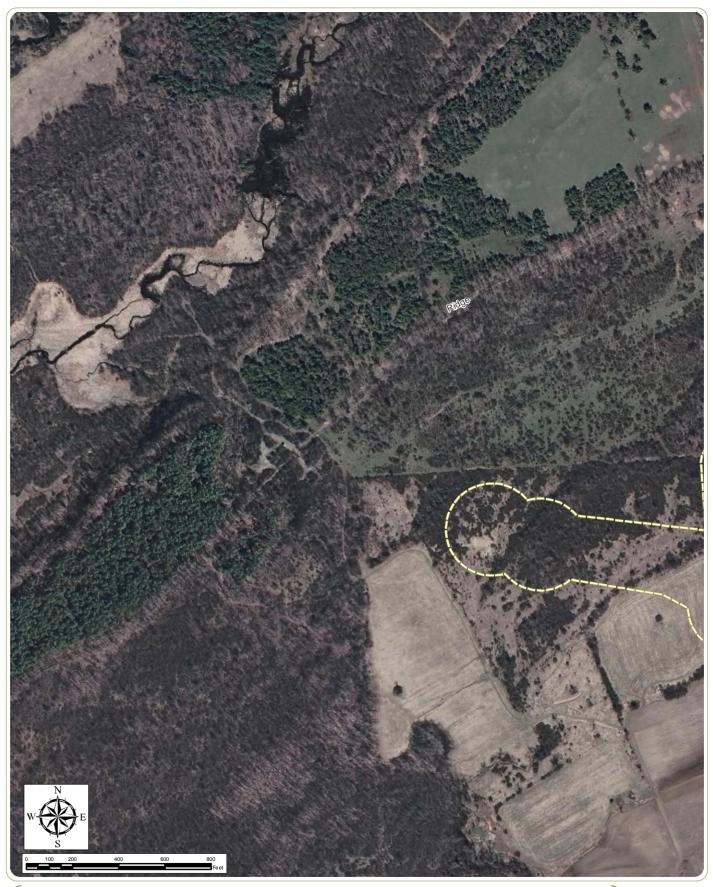


Figure 7: Delineated Wetlands Sheet 4 of 40

January 2011

Notes: Base Map: 1 ft. Orthoimagery, Years 2006 and 2007.



Wetland Survey Area



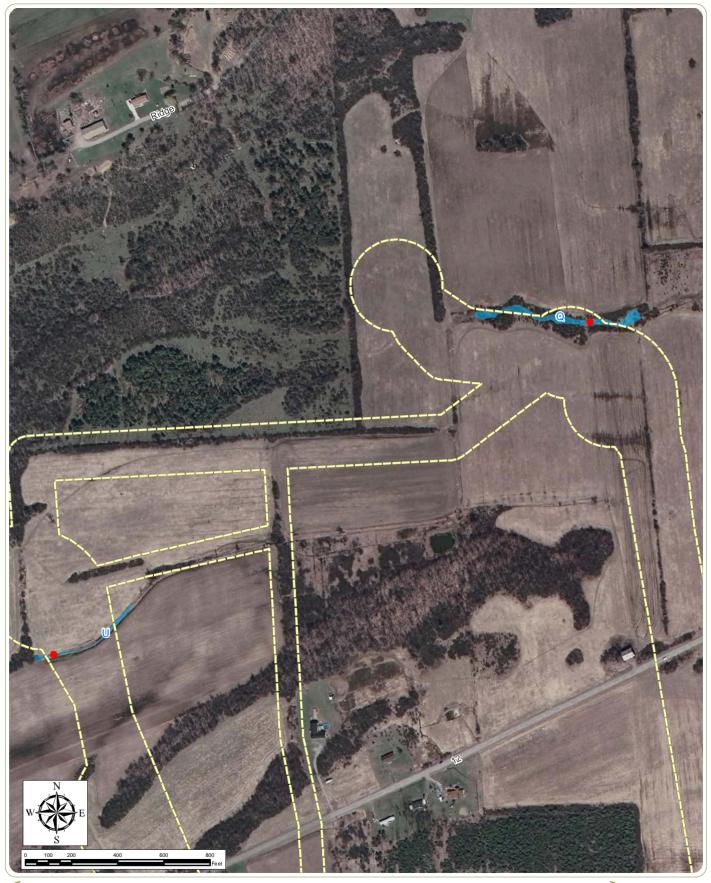
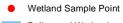


Figure 7: Delineated Wetlands Sheet 5 of 40

January 2011





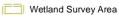






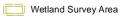
Figure 7: Delineated Wetlands Sheet 6 of 40

January 2011

Notes: Base Map: 1 ft. Orthoimagery, Years 2006 and 2007.

Wetland Sample Point

Delineated Wetland





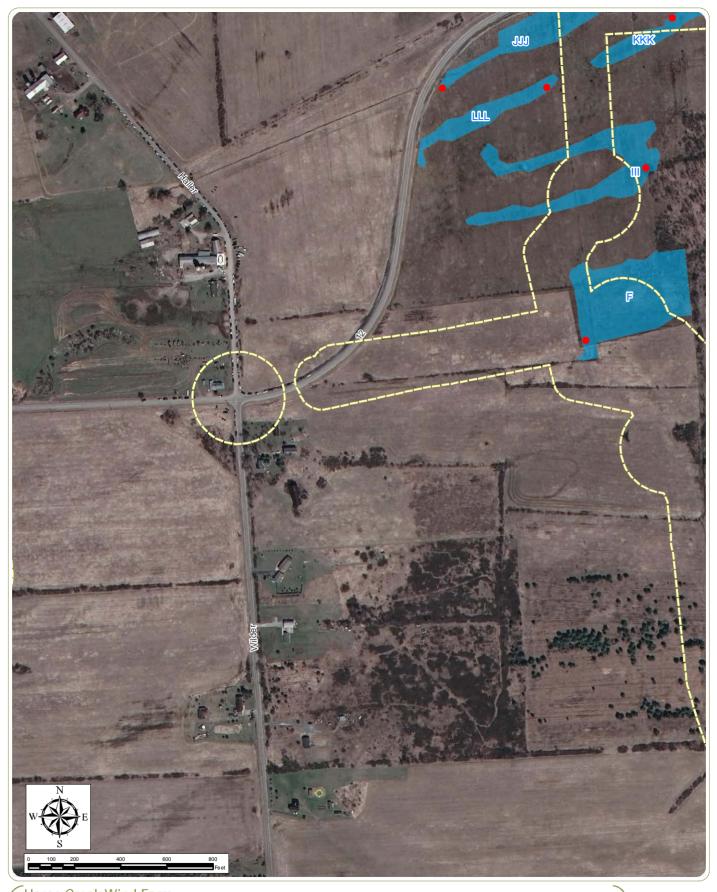


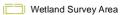
Figure 7: Delineated Wetlands Sheet 7 of 40

January 2011

Notes: Base Map: 1 ft. Orthoimagery, Years 2006 and 2007.

Wetland Sample Point

Delineated Wetland





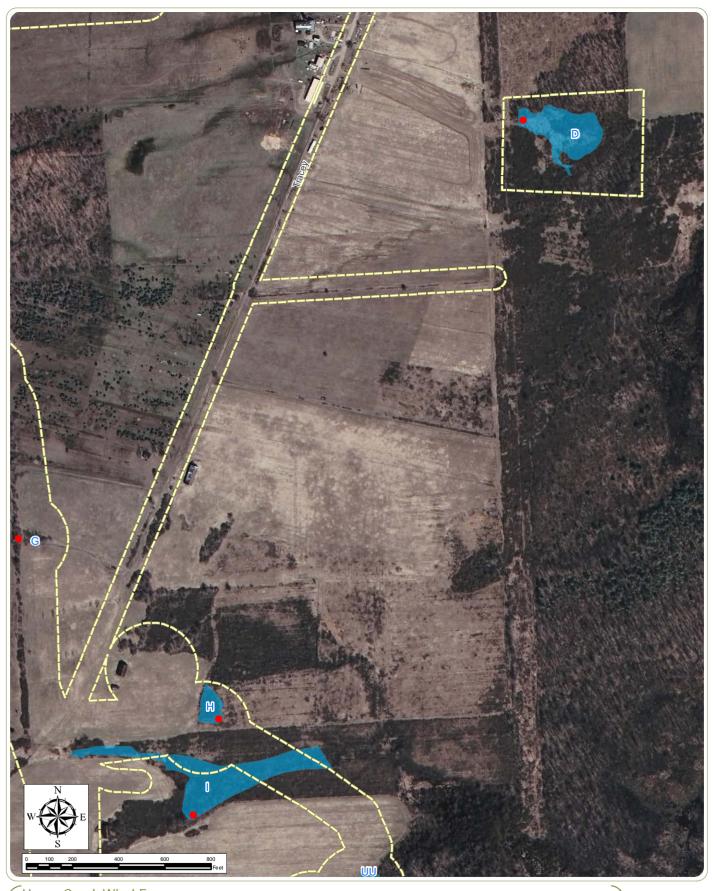
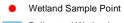


Figure 7: Delineated Wetlands Sheet 8 of 40

January 2011









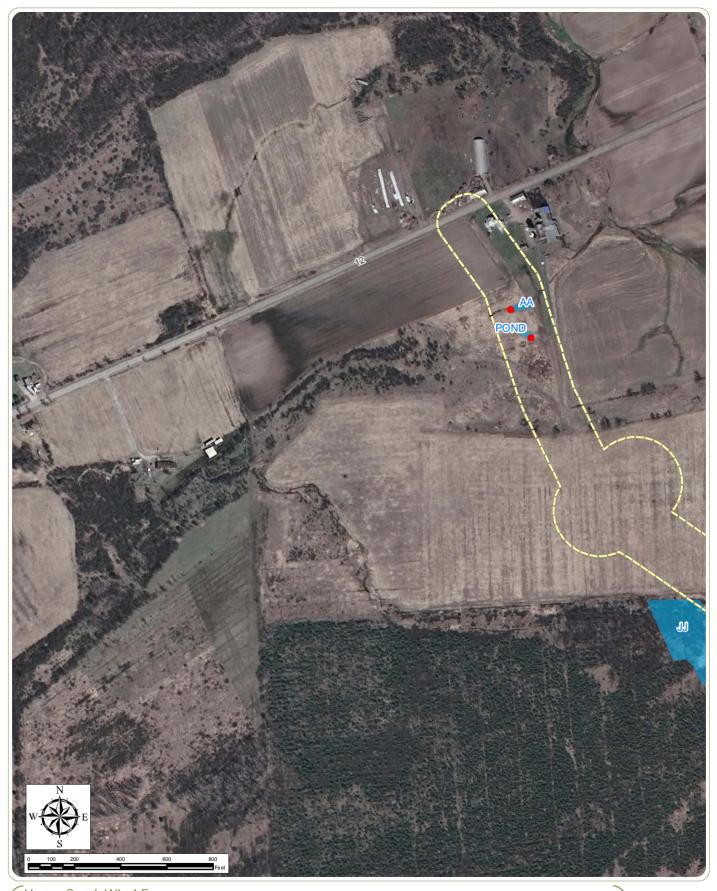
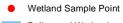


Figure 7: Delineated Wetlands Sheet 9 of 40

January 2011









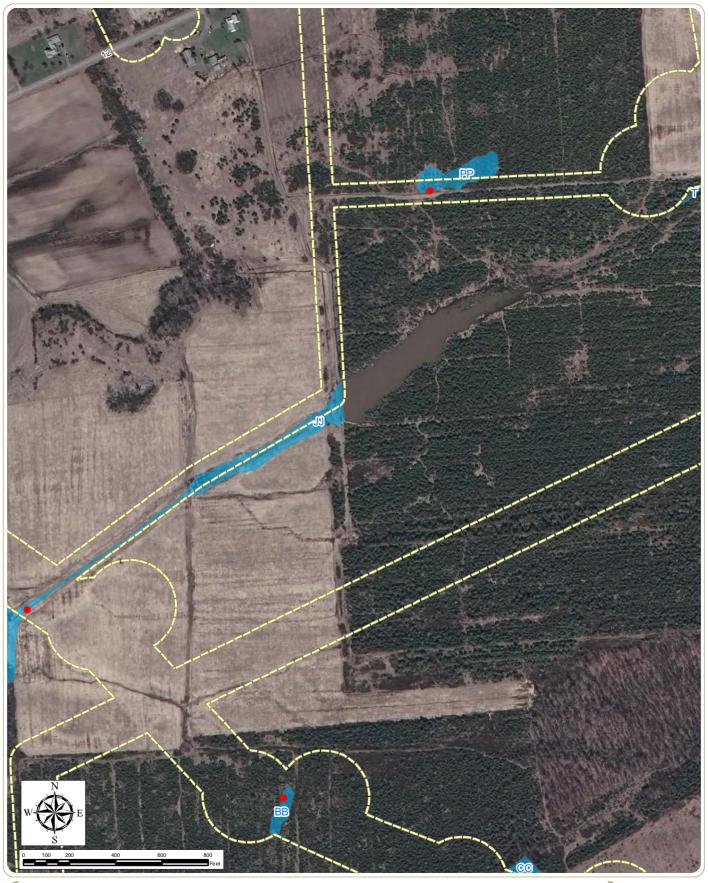
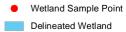


Figure 7: Delineated Wetlands Sheet 10 of 40

January 2011







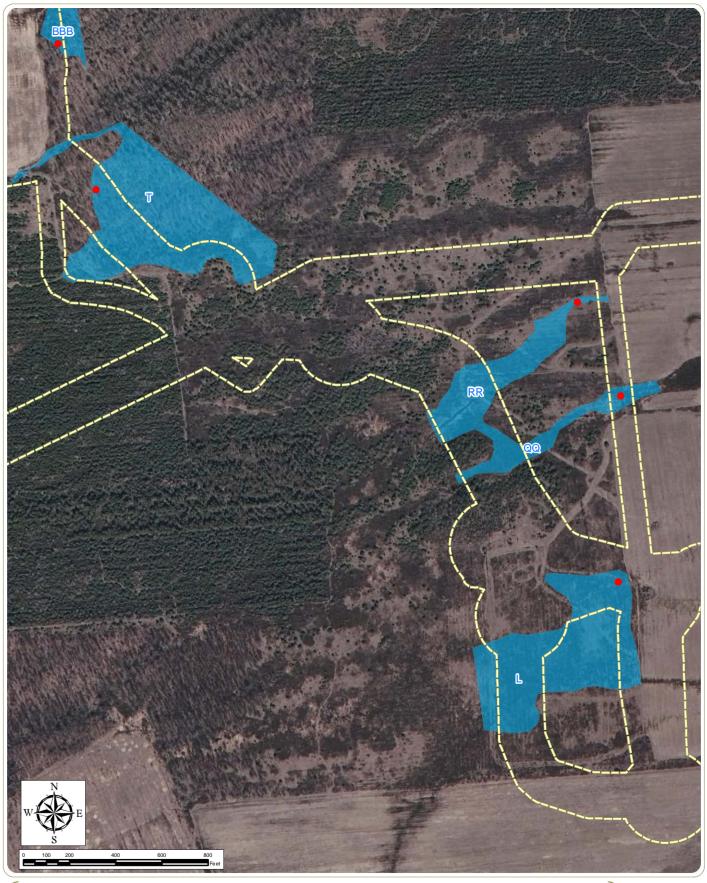


Figure 7: Delineated Wetlands Sheet 11 of 40

January 2011

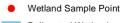




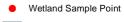






Figure 7: Delineated Wetlands Sheet 12 of 40

January 2011





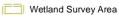
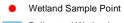


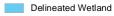


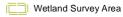


Figure 7: Delineated Wetlands Sheet 13 of 40

January 2011









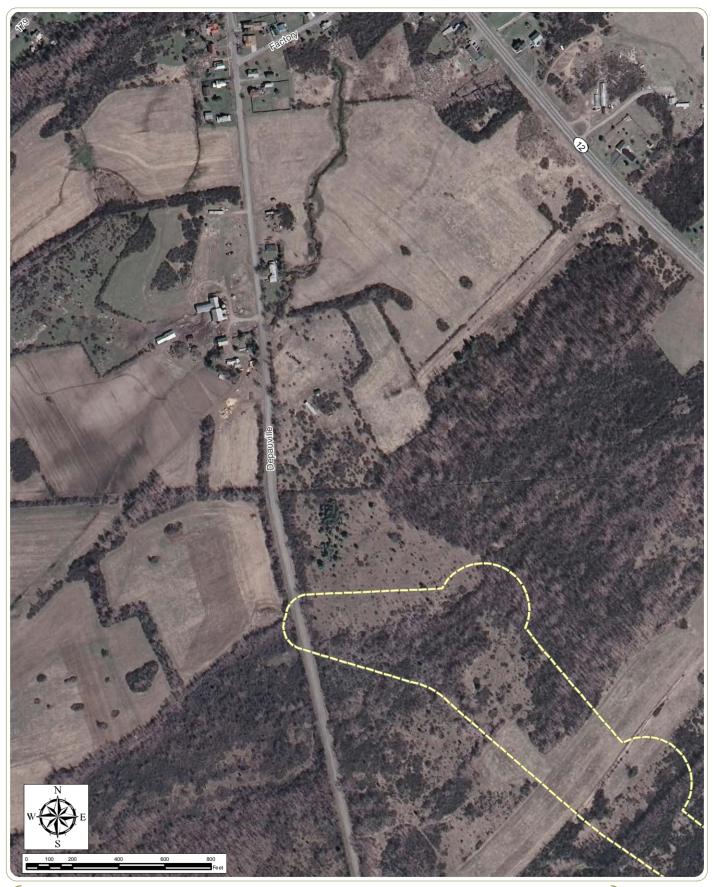


Figure 7: Delineated Wetlands Sheet 14 of 40

January 2011

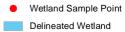


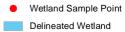






Figure 7: Delineated Wetlands Sheet 15 of 40

January 2011







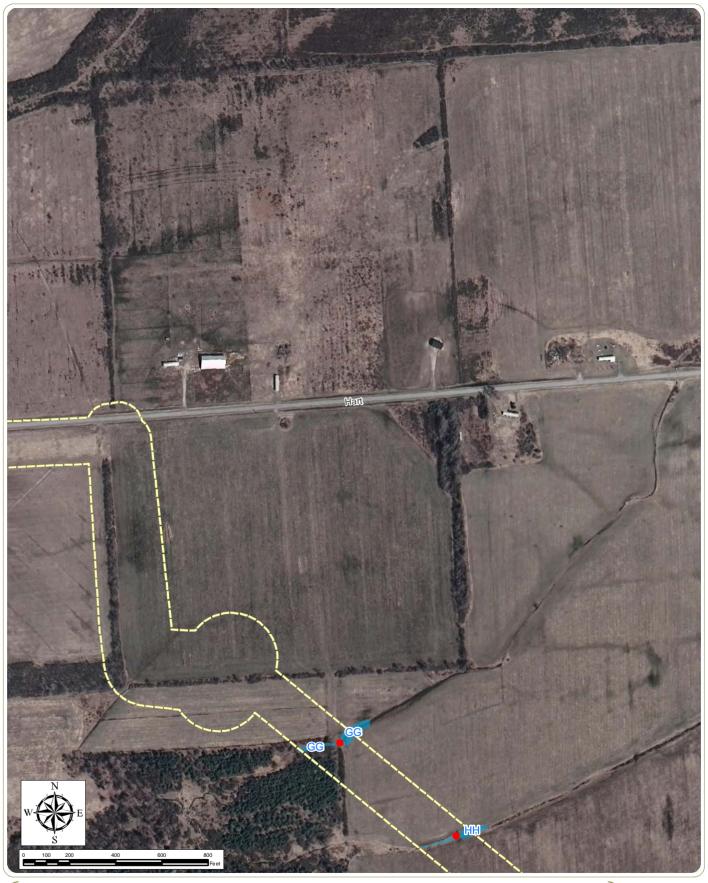
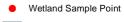
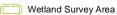


Figure 7: Delineated Wetlands Sheet 16 of 40

January 2011









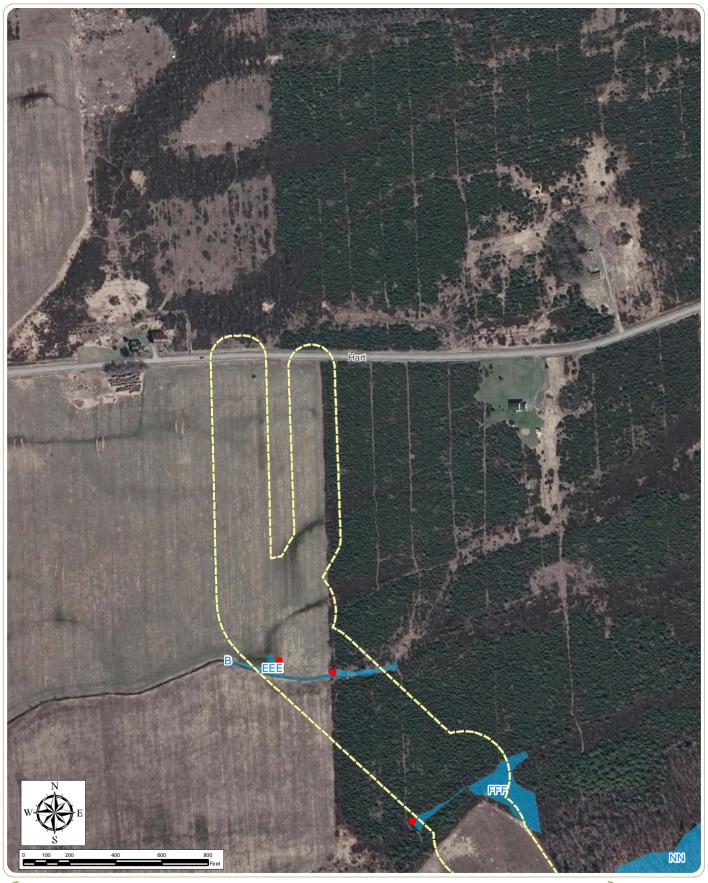
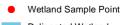


Figure 7: Delineated Wetlands Sheet 17 of 40

January 2011



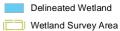
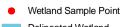


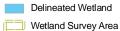




Figure 7: Delineated Wetlands Sheet 18 of 40

January 2011







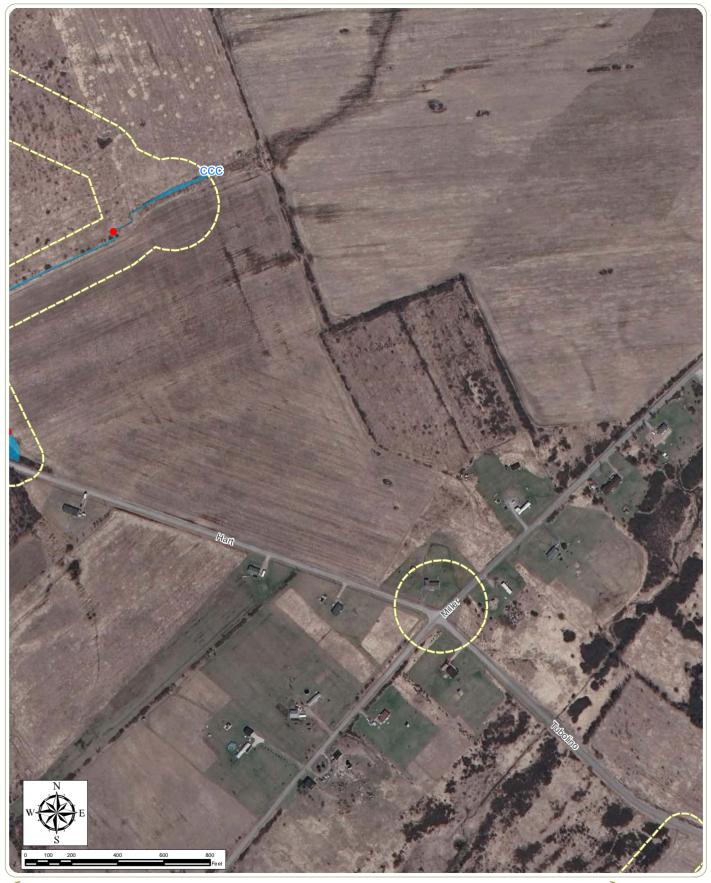


Figure 7: Delineated Wetlands Sheet 19 of 40

January 2011

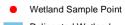




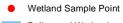






Figure 7: Delineated Wetlands Sheet 20 of 40

January 2011









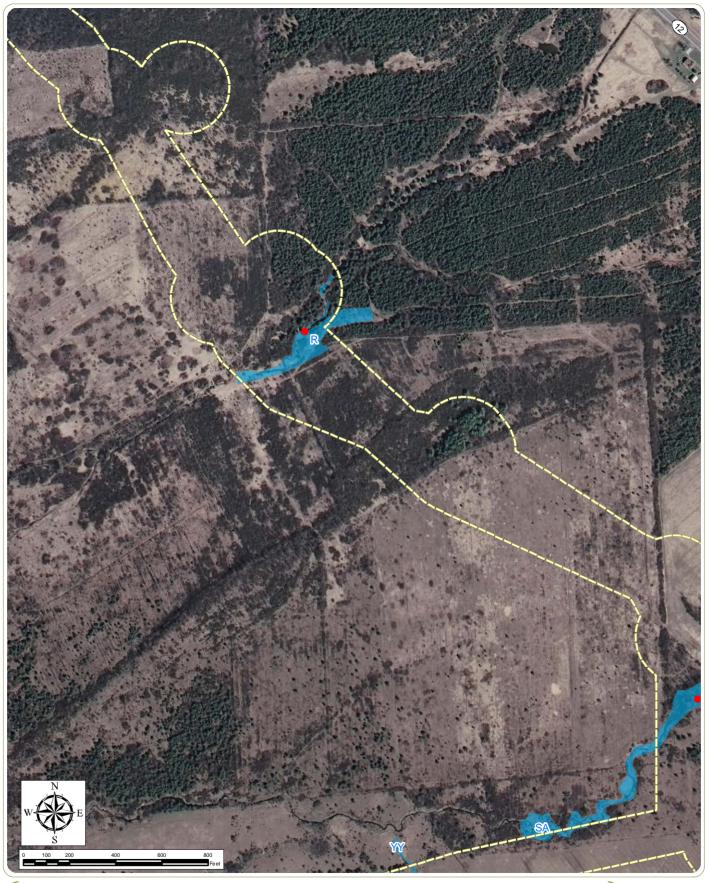
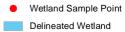
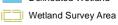


Figure 7: Delineated Wetlands Sheet 21 of 40

January 2011







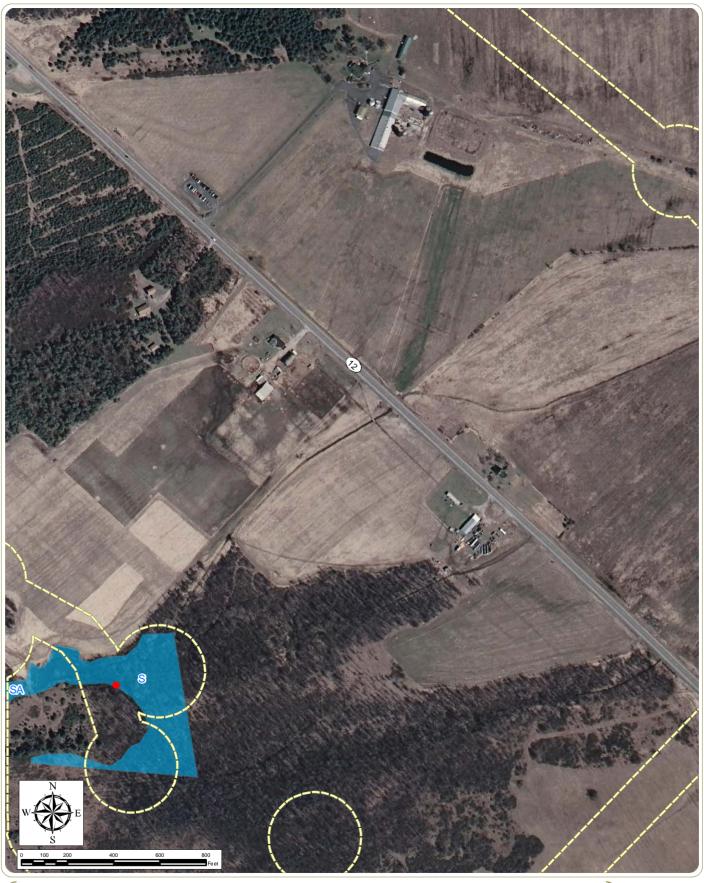


Figure 7: Delineated Wetlands Sheet 22 of 40

January 2011

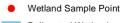




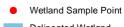






Figure 7: Delineated Wetlands Sheet 23 of 40

January 2011



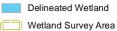
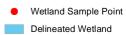


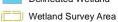




Figure 7: Delineated Wetlands Sheet 24 of 40

January 2011







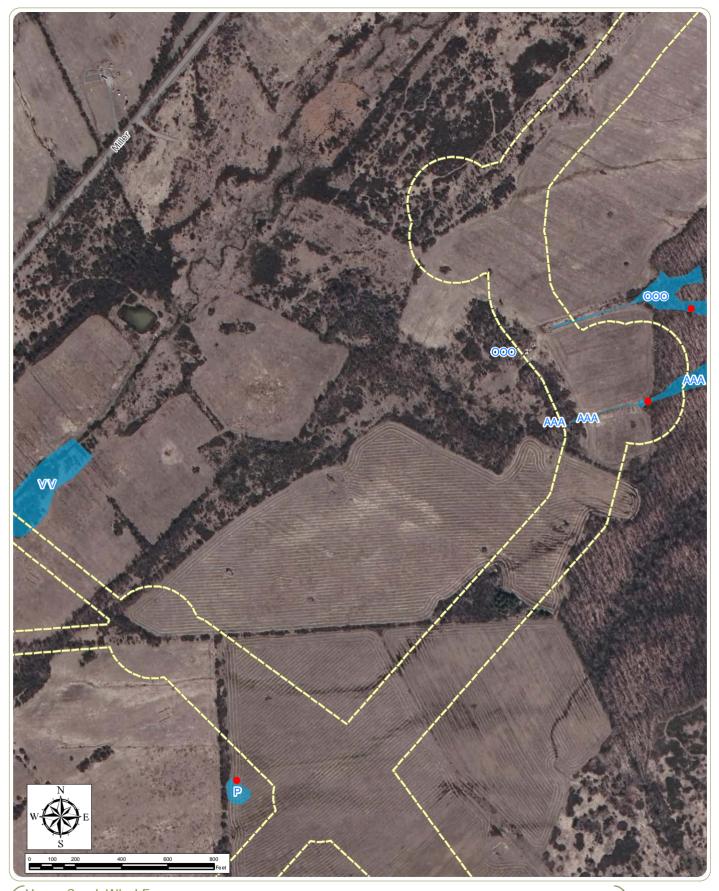
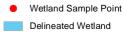


Figure 7: Delineated Wetlands Sheet 25 of 40

January 2011



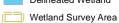
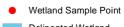






Figure 7: Delineated Wetlands Sheet 26 of 40

January 2011



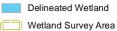
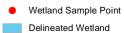






Figure 7: Delineated Wetlands Sheet 27 of 40

January 2011



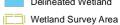
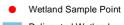






Figure 7: Delineated Wetlands Sheet 28 of 40

January 2011



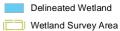
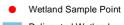


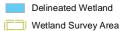




Figure 7: Delineated Wetlands Sheet 29 of 40

January 2011







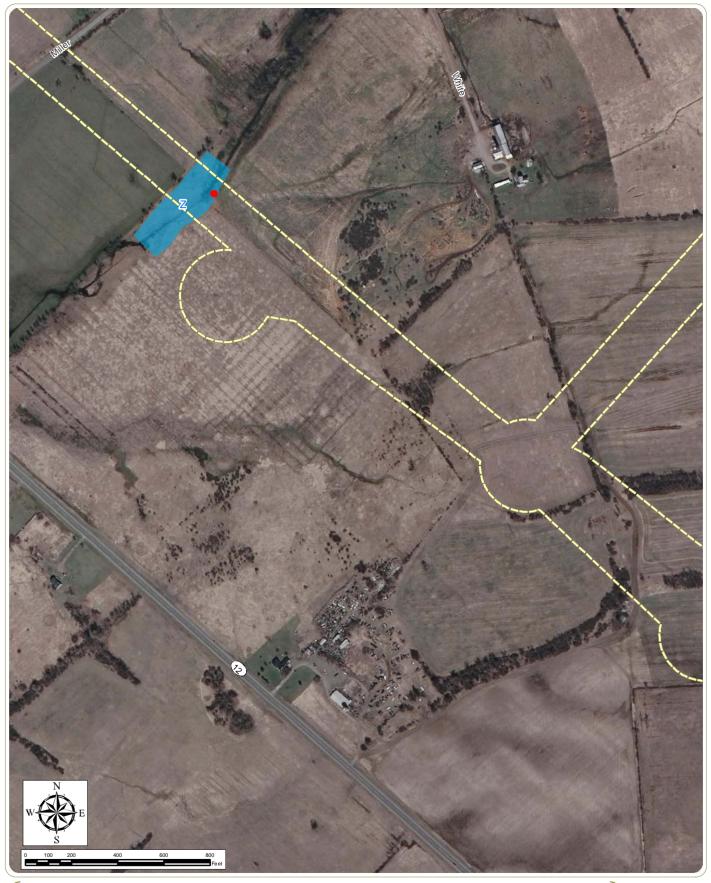


Figure 7: Delineated Wetlands Sheet 30 of 40

January 2011





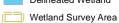




Figure 7: Delineated Wetlands Sheet 31 of 40

January 2011







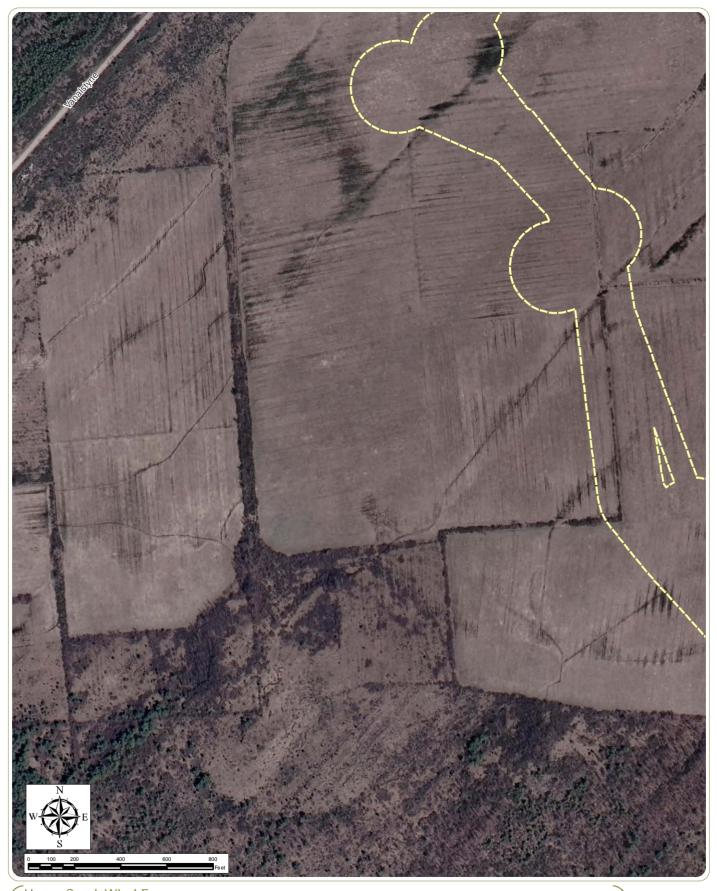
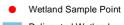
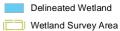


Figure 7: Delineated Wetlands Sheet 32 of 40

January 2011







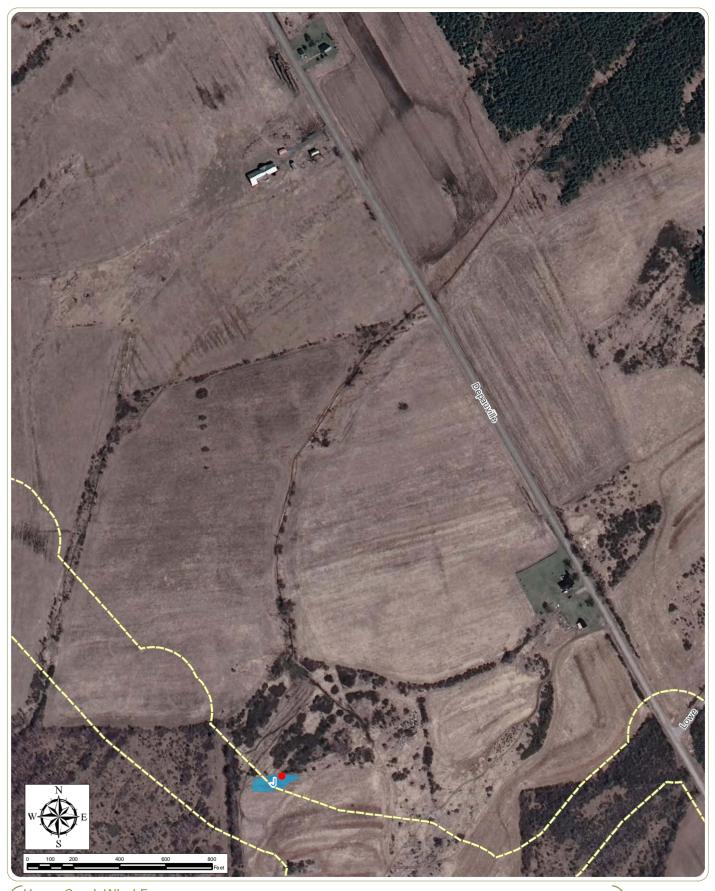
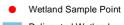
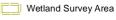


Figure 7: Delineated Wetlands Sheet 33 of 40

January 2011









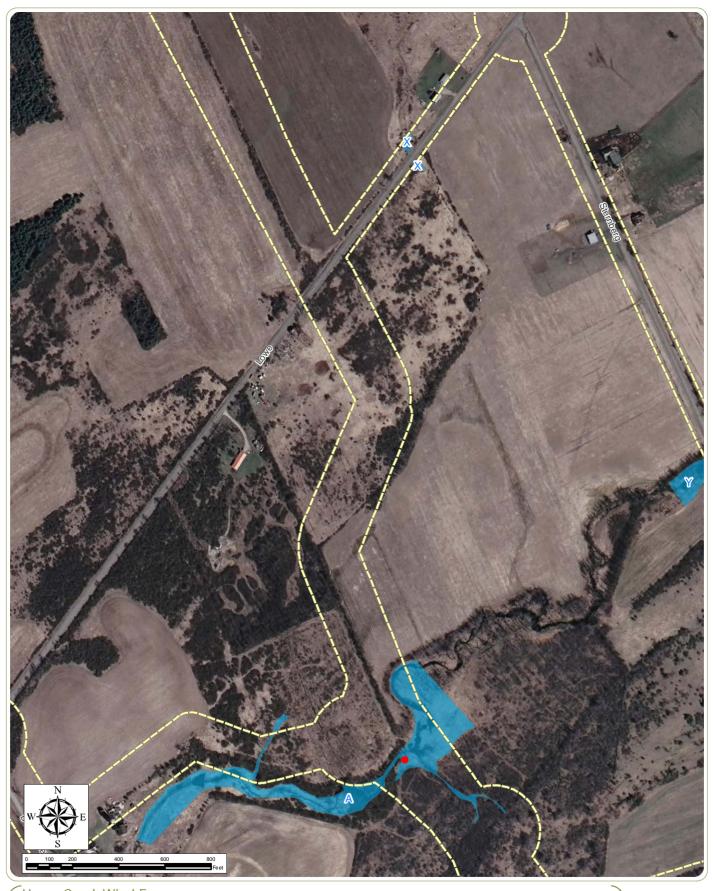
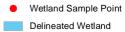


Figure 7: Delineated Wetlands Sheet 34 of 40

January 2011







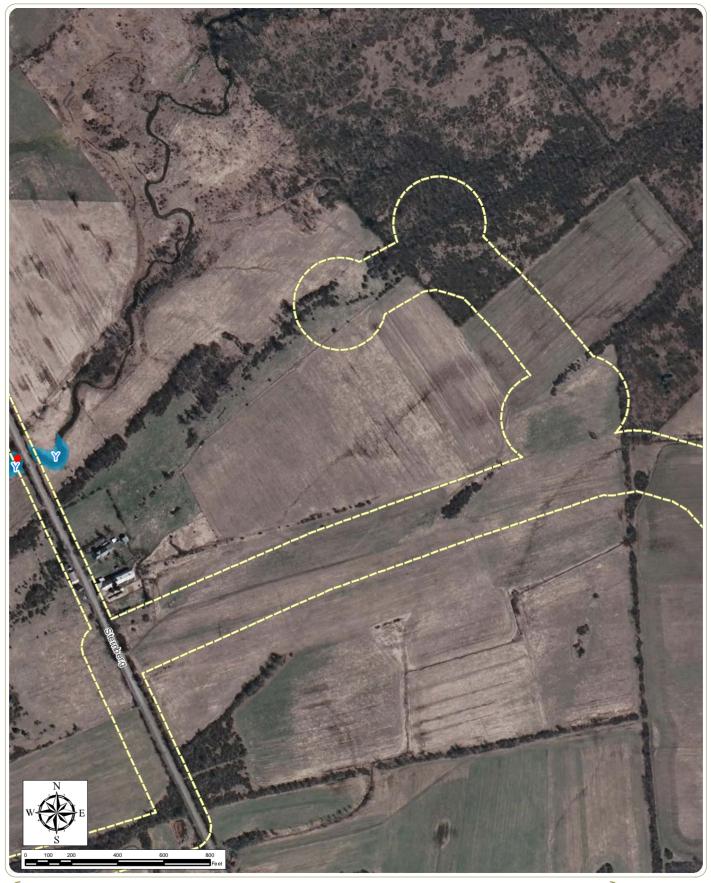
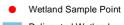


Figure 7: Delineated Wetlands Sheet 35 of 40

January 2011









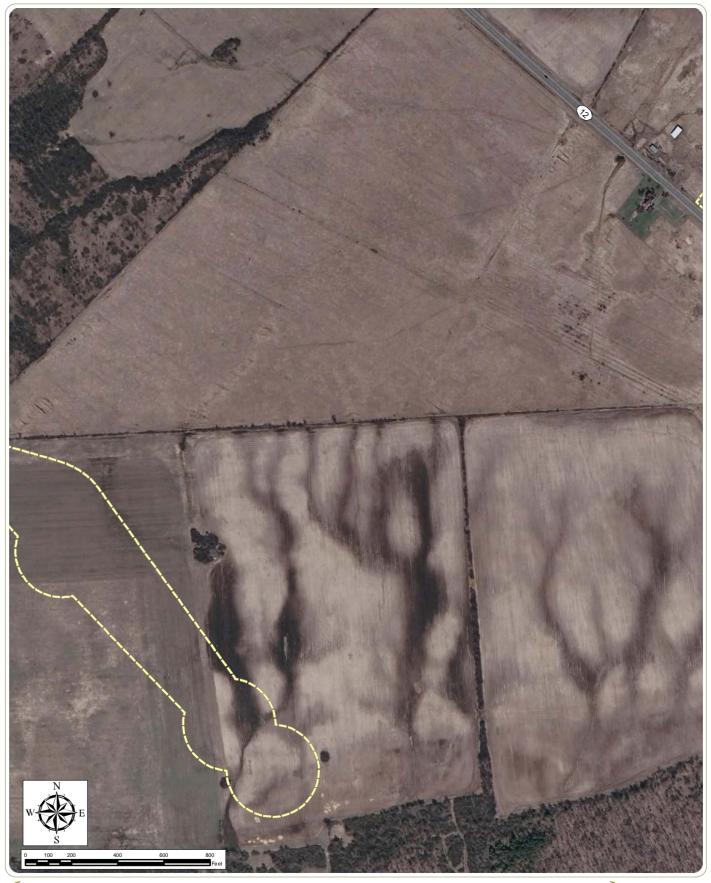
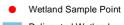


Figure 7: Delineated Wetlands Sheet 36 of 40

January 2011





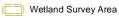
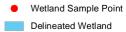






Figure 7: Delineated Wetlands Sheet 37 of 40

January 2011







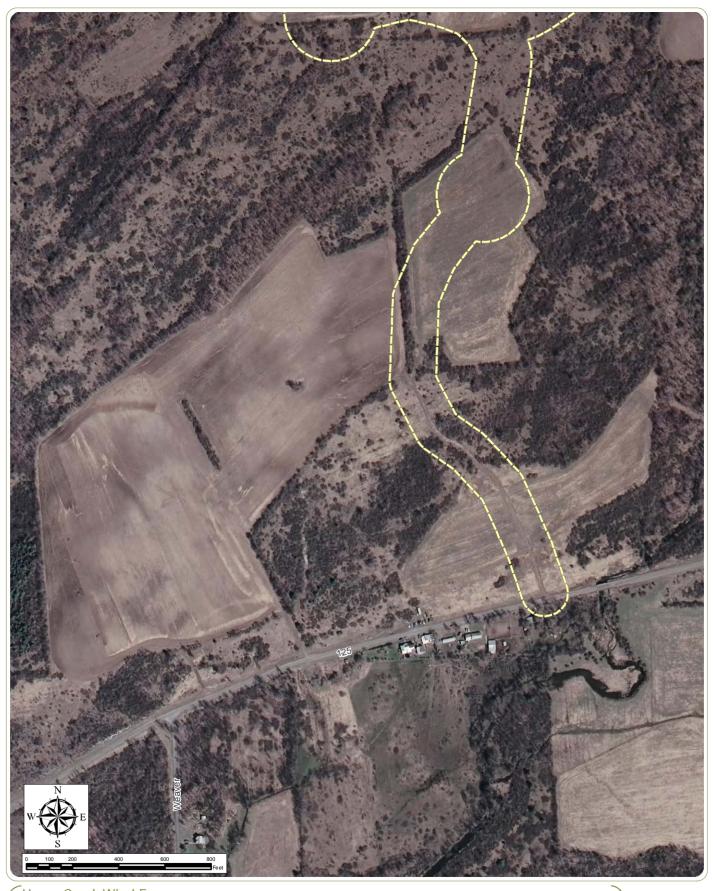


Figure 7: Delineated Wetlands Sheet 38 of 40

January 2011

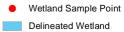
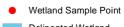






Figure 7: Delineated Wetlands Sheet 39 of 40

January 2011



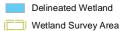
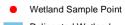






Figure 7: Delineated Wetlands Sheet 40 of 40

January 2011









APPENDIX B

ROUTINE WETLAND DETERMINATION FORMS

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Project No: 05030 Applicant: Horse Creek Win Investigator: Pippin/Stebbins / SUNWANU bance	Town: Clayton
Do normal circumstances exist on site? Is the site significantly disturbed? Yes No Is the area a potential Problem Area? Yes No	Community: PEM Transect/Flag ID: A Plot ID: A - 2 We4
sons	Characteristics dit
Series and Phase: (Fu)Fluvagnant-Va	difuvent (oruplex Drainage Class: OVD MWD SPD PD VPD)
Subgroup: Fluvaquent-Udifluver	
Depth Horizon Matrix color Motel 0-12" A 104x3/2 104x5, 12" yells anger	le color/abundance Texture, Structure, Other 13 some Silty Clay
HistisolsConcretions Histic EpipedonHigh Org. Content in Surface LaSufficie OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color Landscape position:	
YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations O Ground Surface Inundated inches. NO Soil Saturated. — MOVSF
Aerial Photographs	Depth to Free Water inches.
	Depth to Saturated Soils inches.
Wetland Hydrology Indicators: Primary indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland	Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)
Remarks: Beaver activity endent	termination.xis

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/9/07 Plot ID Number: A-2 wes
Dominant Plant Species: 1 Med (an ony Grass 2 twook sedge 3 wool grass 4 canada onemore 5 6 7 8 9 10 11 12 13 14	Stratum: (circle coc) H S/S T V B S/S T V H S/S T V	Indicator: %Cover; FACW+ 70 DBL 70 FACW+ 20 FACW 10
Percent of Dominant Species OBL, FACW, FAC 100 % 50/20 Rule Appli		t of Dominant Species OBL, FACW_100%
Remarks:		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Ves or No Wetland Hydrology Present? Ves or No Hydrologic Connectivity to Off-site Wetlands? Ves or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isolat	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinestion Manual

Project No: 05030 Applicant: Horse Creek Wit	adpower Date: 10/9/6	7_
1	Town: Clayton	
Investigator. Pippin/Stebbins / Schwaschol	County: Jefferson	
- /	State: NY	
Do notmal circumstances exist on site? Ye No	community: 3/mb/OF	
\sim \sim	1	- 5
Is the site significantly disturbed? Yes No	Transect/Flag ID:	
Is the area a potential Problem Area? Yes No	Plot ID: H-2 Uff	
sons (Val) Variable	11/4 1	
Series and Phase: (KgA) Kingsbury	1/th Clay Drainage Class: WD MWD(SPD)PI	O VPD
Subgroup: Heric Ochraqualfs	Confirm Mapped Type: Yes No	
	le color/abundance Texture, Structure, Other	
6 111 1 1 1 1 1	one sitty loan	
U 6 FF 10918 S/3 110	511 9 1000.	
6"+ rejects auge	_	
Hydric Soil Indicators:	*	
HistisolsConcretions	Listed on Local Hydric Soils List	
Histic EpipedonHigh Org. Content in Surface L		
Sufidic OdorOrganic Streaking in Sandy Soil		
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime	
Landscape position: concave	convex sloping Approximate slope:	
	adulating	

Remarks:	2 1	
dry crumsty.	501/	
HYDROLOGY		
Recorded Data (Describe in Remarks)	Field Observations	
No Recorded Data Available	Ground Surface Inundated inches.	
Stream, Lake or Tide Gauge	Soil Saturated.	
Aerial Photographs	Depth to Free Water inches.	
	Depth to Saturated Soils inches.	
Wetland Hydrology Indicators:		
Primary Indicators	Secondary Indicators (2 or more required)	
Inundated	Oxidized Root Channels in upper 12 inches	
Saturated in upper 12 inches,	Water-Stained leaves	
Water Marks	Local Soil Survey	
Drift Lines	Morphological Plant Adaptations	8
Sediment Deposits	Other (Explain in Remarks)	
Drainage Patterns in Wetland		
Remarks:		***************************************
The state of the s		
no wetland hydrodo	89	- 10
U		
::\edr office files\forms\Data Form Routine Wetland De	termination.xls	(a)

	I W	T = 1 = 1
Project Number: 05030		Date: 10/9/07
Applicant: Horse Creek Windpower	<u> </u>	Plot ID Number: A-2 UPC
VEGETATION		
Dominant Plant Species:	Stratum: (circle one)	Indicator: % Cover:
1 buckethorn	H SS T V	UPL 40 -
2 gray do gwood	H SAS T V	FAC 60 -
3	H S/S T V	
2 gray do gwood 3 4 ralico aster	OR SIS T V	FACW- 30 -
5 Canada Goldmood 6 wild Strankery	Ø s/s T V	FACU SO -
6 Wild Stran Leny	B s/s T V	FACU 10
7	H S/S T V	,
8	H S/S T V	= 104
g	H S/S T V	
	H S/S T V	
10	H S/S T V	-
11		
12		***************************************
13	H S/S T V	-
14	H S/S T V	
15	R S/S T V	
16	H S/S T V	
		252
Percent of Dominant Species OBL, FACW, FAC_50	Perc	ent of Dominant Species OBL, FACW_25%
50/20 Rule	Applied? Yes No	
Remarks:		
		50. 50. 40. 40. 40. 40. 40. 40. 40. 40. 40. 4
WETLAND DETERMINATION	100 L	
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within	a Wetland? Yes on No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Iso	***************************************
Remarks:		Photo Reference Number:
₹.		
9 E		*

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinention Manual

Project No: 05030 Applicant: Horse Creek	Windpower	Dat	ne: 10/9/07
121		To	wn: Clayton
Investigator. Pippin/Stebbins / Schwalen k	parer	Co	unty: Jefferson
		Sta	te: NY
Do normal circumstances exist on site? Is the site significantly disturbed? Yes No Yes No Yes No Yes No		Community: Stream sect/Flag ID: 1C A: Plot ID: 1C A	channel-intem 24 24
		The state of the s	
Series and Phase: (Fu) Fluva quent - U Subgroup: Fluva quent - Udit Depth Horizon Marrix color	110	Confirm Mappe Texture, Structure,	d Type: Yes No
Sufidic OdorOrganic Streaking in Sandy	convex		
YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs		ons round Surface Inundated nil Saturated.	inches.
	Depth to Free Wa	aterinches.	
Wetland Hydrology Indicators: Primary Indicators Inundated		ators (2 or more required)	12 inches
Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland	W	later-Stained leaves ocal Soil Survey forphological Plant Adaptations ther (Explain in Remarks)	
Remarks: Stream has floodpla- org, width 3-5 feet Channel depth 2-4 feet office filestforms Data Form Routine Welland		ncised	

Project Number: 05030		Date: 10)/9/0 +
Applicant: Horse Creek Windpower		Plot ID Number:/C	C-A24
VEGETATION	10.		
		1	
Dominant Plant Species:	Stratum: (circle ecc)	Indicator:	% Cover:
1 red caran grass	B S/S T V	FACWY	_90
2 green bulinon	S/S T V	OBL	10
3 Clearweed	GP s/s T V	FACW	_10
4 water pimpurel	(H) S/S T V	_OBL_	_10
5	H S/S T V	-1	1 2 2
6	H S/S T V	A	
	н s/s 쉾 v	FACW	40 -
green ash	H S/S T V		
9 buckthorn	H SS T V	UPL	40
10	H S/S T V		
- 11	H S/S T V	V I	
12	H S/S T V		
13	H S/S T V		
14	H S/S T V	-,	
15	H S/S T V		
16	H S/S T V	· · · · · · · · · · · · · · · · · · ·	

Percent of Dominant Species OBL, FACW, FAC 67 %	Реге	ent of Dominant Species OBL	FACW 67%
50/20 Rule 4	R		
		***************************************	*********************************
Remarks;			
WETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No	
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within	a Wetland? Yes	or No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isc		or No
evidence Of beaver act	bris	Photo Reference Number	

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

DATA FORM 274 North Goodman Street Syracuse, New York 13202 ROUTINE WETLAND DETERMINATION Rochester, New York 14607 1987 COE Wetlands Delineation Manual Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator: Pippin/Stebbins Jefferson County: State: W/associated cha Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transcct/Flag ID: Is the area a potential Problem Area? sons WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Yes No Texture, Structure, Other Mottle color/abundance Matrix color Horizon 25 YR 4 Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon Listed as Potential for Hydric Inclusions Only High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave convex Approximate slope: Remarks: HYDROLOGY Recorded Data (Describe in Remarks) NO No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water Depth to Saturated Soils_ Wetland Hydrology Indicators: Secondary Indicators (2 or more required) **Primary Indicators** Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland

Remarks:

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/10/07 Plot ID Number: 8 4 we4
Dominant Plant Species: 1 Spirala albar 2 Cornus formina 3 Willow 4 Canay red Grass 5 Worl grass 6 difth stonerop 7 Narrow lowed colderod 8 Lycopus uni Horus 9 Carep vulpinoides 10 11 12 13 14 15 16	Stratum: (circle coc) H SIS T V H SIS T V	Indicator: % Cover. FACW+ 40 - FACW/OBC 20 - FACW+ 40 - FACW+ 25 - OBL 5 FAC 25 - OBL 5 OBL 20
Percent of Dominant Species OBL, FACW, FAC 100 % 50/20 Rule Appl Remarks; WETLAND DETERMINATION	ied? (Yes) No	nt of Dominant Species OBL, FACW_672
Hydrophytic Vegetation Present? (Yes or No Wetland Hydrology Present? (Yes or No Hydrologic Connectivity to Off-site Wetlands? (Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Project No:05030 Applicant: Horse Creek Wind	power	Date:	10/10/07
å av	1 %	Town;	Clayton
Investigator. Pippin/Stebbins		County:	Jefferson
and promise of the principal of the prin		State:	NY
		Jule,	
Do normal circumstances exist on site? Yes No	recl Community:_ Transect/Fiag ID:_	forest - this	ch some plantas
Is the site significantly disturbed? Yes No)	TransecuFing ID:	B	
X '	7	P4,	. 01
Is the area a potential Problem Area? Yes No	Plot ID:	PIC	yl
•			
OILS			
Series and Phase (WnB) Wilpoint Silty	day loan	Drainage Class:	WD MIND SPD PD VPD
Subgroup: Aquic Haplugalfs	/	Confirm Mapped Type	:: (YA) No
subgroup: 110/01/C Thy William 73		Contrib Mapped Type	: (15) NO
Depth Horizon Matrix color Mottle	color/abundance . I	Texture, Structure, Other	*
0-3" A 104R-3/2 n	one	51/ty de	au
Q"+ B 1040 7/2 1041 5/8			0
9 + B 104R 3/2 104R 5/8	- Some	day	
	į	0	
Histisols Concretions High Org. Content in Surface Lay	L er of Sandy Soils L	Listed as Potential for Hy	dric Inclusions Only
Histic Epipedon High Org. Content in Surface Lay Suffidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave und	er of Sandy Soils C	Listed as Potential for Hy Other (Explain in Remark Aquic Moisture Regime Approxim	33)
Histic Epipedon Suffidic Odor Reducing Conditions Landscape position: Remarks: Soll dy, Counted High Org. Content in Surface Lay. Organic Streaking in Sandy Soils Gleyed or Low Chroma color concave fint X und	er of Sandy Soils C	Other (Explain in Remark Aquic Moisture Regime Approxim	33)
Histic Epipedon High Org. Content in Surface Lay Suffidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave flat	convex sloping Field Observations	Other (Explain in Remark Aquic Moisture Regime Approxim	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated.	Other (Explain in Remark Aquic Moisture Regime Approxim	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated.	Other (Explain in Remark Aquic Moisture Regime Approxim	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated.	Other (Explain in Remark Aquic Moisture Regime Approxim	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated. Depth to Free Water	Other (Explain in Remark Aquic Moisture Regime Approximate Inundated inches.	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated. Depth to Saturated Soils Secondary Indicators (2 or more	Other (Explain in Remark Aquic Moisture Regime Approxim Approxim Inundated inches. inches.	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated. Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 or more Oxidized Root C	Other (Explain in Remark Aquic Moisture Regime Approxim Approxim Inundated inches. inches. c required) Channels in upper 12 inch	ate slope:
High Org. Content in Surface Lays Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave flat und Remarks: SOI Ary County Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches.	Field Observations Ground Surface Soil Saturated. Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 or more Oxidized Root C Water-Stained le	Other (Explain in Remark Aquic Moisture Regime Approxim Approxim Inundated inches, inches, e required) Channels in upper 12 incheseves	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated. Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 or more Oxidized Root C Water-Stained le Local Soil Survey	Other (Explain in Remark Aquic Moisture Regime Approxim Approxim Inundated inches, inches, e required) Channels in upper 12 incheseves	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated. Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 or more Oxidized Root C Water-Stained le Local Soil Surve Morphological P	Other (Explain in Remark Aquic Moisture Regime Approxim Approxim Inundated inches, inches, c required) Channels in upper 12 incheaves Cy Plant Adaptations	ate slope:
Histic Epipedon	Field Observations Ground Surface Soil Saturated. Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 or more Oxidized Root C Water-Stained le Local Soil Survey	Other (Explain in Remark Aquic Moisture Regime Approxim Approxim Inundated inches, inches, c required) Channels in upper 12 incheaves Cy Plant Adaptations	ate slope:

fice files\forms\Data Form Routine Wetland Determination.xls

Project Number: 0503 Applicant; Hors	0 e Creek Windpov	ver_			20	Date: Plot ID Number		0/07 UPL.
VEGETATION Dominant Pla 1 white 9 2 3 grey do 9 4 morrow 5 6 Principal 7 Potentia 9 10 11 12 13	mood horeysus wigan la samp wyinian	s up a	H H H H H H H H H	Turm: (circle S/S T		FACU FACU FACU FACU FACU		% Cover. 40 % 50 % 25% 5% 5%
14	***************************************	****	н :	S/S T S/S T S/S T		Percent of Dominant Spe	cies OBL, FAC	:w_ <i>D</i>
Remarks:	Spo	use herb	. 1a	zer	**********	***************************************		
WETLAND DETERMINA' Hydrophytic Vegetation Pro Wetland Hydrology Present Hydrologic Connectivity to Remarks:	esent? Yes or No	. 1	ls this Sa	1 1	oint W	Yes or No ithin a Wetland? y Isolated? Photo Reference	Yes or No Yes or No Number:	>

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

	dpower	Date;	10/10/07
*	Page 18	Town:	Clayton
Investigator, Pippin/Stebbins		County:	Jefferson
	ф. _П	State:	NY
Do normal circumstances exist on site? (Yel No	Community	wet mead	n
			(open ende di
Is the site significantly disturbed? Yes (No			el- and
Is the area a potential Problem Area? Yes No	Plot ID:	C 3 //	T
ons .	2		
Series and Phase: (CIA) Chaumont sit	to clay	Drainage Class:	WD MWD FPDPD VPD
Ania Dalanca 1		-	_
Subgroup: TIETIC OCTIVAQUAS	75	Confirm Mapped Type:	(Yes) No
	color/abundance	Texture, Structure, Other	-
	one	das	
6" bedrock			
o degroce			
Hydric Soil Indicators:			
Landscape position: concave	convex sloping	Approximate	slope:
	lulating		endes the last of the second s
flåt und	lulating		\$4000 \$400 FEET THE REAL PROPERTY OF THE PROPE
Remarks: SEVERAL OFFICE TEST PROLOGY Recorded Data (Describe in Remarks)	ts Showed mot	Hing-cran	3e
Remarks: SEVERAL OFFICE	Field Observations NO Ground Surface	Hing- rang	gangga gangarina ang anarana pinananang bebebah pada pada banar anaran banar
Remarks: SEVERAL OFFICE TO PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake of Tide Gauge	Field Observations NO Ground Surface	Hing-cran	3e
Remarks: SEVERAL OFFICE	Field Observations NO Ground Surface	Hing-range Inundated N/A in - Moist	3e
Remarks: SEVERAL OFFICE TO PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake of Tide Gauge	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water NA	Hing-ram Inundated N/A in - Moist inches.	3e
Remarks: SEVERAL OFFICE TO PARTIE OF PARTIES SEVERAL OFFICE OFFIC	Field Observations NO Ground Surface NO Soil Saturated.	Hing-ram Inundated N/A in - Moist inches.	3e
Remarks: SEVER OFFICE TO PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake of Tide Gauge	Field Observations NO Ground Surface NO Soil Saturated Depth to Free Water NA Depth to Saturated Soils N	Inundated NA in - Moi St inches. A inches.	3e
Remarks: SEVERN OFFICE TEST PARTIES. POROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators:	Field Observations NO Ground Surface NO Soil Saturated Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor	Inundated WA in Moi St inches. A inches. c required) Channels in upper 12 inches	ches.
Remarks: SWWW OHWW FLST PT PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches.	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (6 Water-Stained)	Inundated NA in - Moi St inches. c required) Channels in upper 12 inches eaves	ches.
Remarks: SWWW OHW FLAT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks	Field Observations NO Ground Surface NO Soil Saturated Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained I Local Soil Surva	Inundated NA in Moi St inches. A inches. c required) Channels in upper 12 inches eaves	ches.
Remarks: SWWW OHW FLOT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained II Local Soil Survey Morphological II	Inundated N/A in Inundated N/A in Moi St inches. A inches. c required) Channels in upper 12 inches caves by Plant Adaptations	ches.
Remarks: SWWW OHWW FLAT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Field Observations NO Ground Surface NO Soil Saturated Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained I Local Soil Surva	Inundated N/A in Inundated N/A in Moi St inches. A inches. c required) Channels in upper 12 inches caves by Plant Adaptations	ches.
Remarks: SWWW OHWW FLAT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained II Local Soil Survey Morphological II	Inundated N/A in Inundated N/A in Moi St inches. A inches. c required) Channels in upper 12 inches caves by Plant Adaptations	ches.
Remarks: SWWW OHW FLOT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained II Local Soil Survey Morphological II	Inundated N/A in Inundated N/A in Moi St inches. A inches. c required) Channels in upper 12 inches caves by Plant Adaptations	ches.
Remarks: SWEW OHW FLOT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits X Drainage Patterns in Wetland Light Merial Remarks:	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained II Local Soil Survey Morphological II	Inundated N/A in — Moi St inches. A inches. c required) Channels in upper 12 inches caves by Plant Adaptations	ches.
Remarks: SWWW OHW FLOT PI PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits X Drainage Patterns in Wetland L phu. Mercel	Field Observations NO Ground Surface NO Soil Saturated. Depth to Free Water N/A Depth to Saturated Soils N/ Secondary Indicators (2 or mor X Oxidized Root (Water-Stained II Local Soil Survey Morphological II	Inundated N/A in — Moi St inches. A inches. c required) Channels in upper 12 inches caves by Plant Adaptations	ches.

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/16/07 Plot ID Number: (3 we4
Dominant Plant Species: 1 Soft Yush 2 boneset 3 hamow leaf cattail 4 grantationsh 5 ration aster 6 wood arass 7 fox sedge 8 9 10 11 12 13 14 15	Stratum: (circle ooc) H) S/S T V H S/S T V	Indicator: % Cover: FA-CW+ 40 FA-EW+ 20 OBL 10 OBL 10 FA-CW- 20 FA-CW+ 10 OBL 30
Percent of Dominant Species OBL, FACW, FAC	A	ent of Dominant Species OBL, FACW_\(\int\)\(\sigma\)
Remarks: 0450 monky flower no	imow legs golder	vd
WETLAND DETERMINATION Hydrophytic Vegetation Present? (Yes or No Wetland Hydrology Present? (Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks: WH MEADOW OSS OCIAHO potentially isolated - low Spot in Swale	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Isol Wetherwal Connections Non-	Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delimention Manual

Investigator: Pippin/Stebbins County State: Do normal circumstances exist en site? Do normal circumstances exist en site? Je No Community: Old Fre It the site significantly disturbed? Je No State: Is the site significantly disturbed? Je No Community: Old Fre Transcet/Flag ID: C State and Phase: CAT) Chaumont Silty Clay Diralnage Class: Confirm Mapped T: Confirm Mapped T: Confirm Mapped T: Confirm Mapped T: Listed on Local Hydric Hydric Soil Indicators: Hissis Epipedon High Org. Content in Surface Layer of Sandy Soils Suffice Odor Organic Structure, Old Aquie Moisture Regin Concretions Hissis Epipedon High Org. Content in Surface Layer of Sandy Soils Other (Explain in Ren Aquie Moisture Regin Concretions Reducing Conditions Gleyed or Low Chrema color Concret Reducing Conditions Gleyed or Low Chrema color Concret Researks: ON Recorded Data (Describe in Remarks) No Recorded Data (Pescribe in Remarks) No Recorded	10/10/07
State: Do normal circumstances exist on site? Ves No Community: Old free Is the site significantly disturbed? Yes State: Transect/Flag ID: C Is the site significantly disturbed? Yes State: Transect/Flag ID: C Is the site significantly disturbed? Yes State: Transect/Flag ID: C Is the site significantly disturbed? Yes State: Plot ID: C 3 U Is the site significantly disturbed? Yes State: Plot ID: C 3 U Is the site significantly disturbed? Yes State: Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the significant significantly disturbed? Plot ID: C 3 U Is the site significantly disturbed? Plot ID: C 3 U Is the significant significantly disturbed? Plot ID: C 3 U Is the significant sig	Clayton
Do normal circumstances exist on site? Is the site significantly disturbed? Is the site significantly disturbed? Yes 60 Transect/Flag ID: C Lis the site significantly disturbed? Yes 60 Transect/Flag ID: C Lis the site significantly disturbed? Yes 60 Transect/Flag ID: C Lis the site significantly disturbed? Yes 60 Transect/Flag ID: C C Lis the site significantly disturbed? Yes 60 Transect/Flag ID: C C Lis the site significantly disturbed? Yes 60 Transect/Flag ID: C C Lis the site significantly disturbed? Plot ID: C Lis the site significantly disturbed? Drainage Class: Confirm Mapped T: Subgroup: Mortic color/abundance Texture, Od Struct, Structure, Od Structure, Od	
Is the site significantly disturbed? Yes 10 Transect/Flag ID: C 3 L Series and Phases (AA) Chaumont Silty day Drainage Class: Confirm Mapped T: Confirm Mapped	NY
Is the area a potential Problem Area? Ves 85 Piet ID. C. 3 LL Series and Phase: (AA) Chaumont Silty Clay Drainage Class: Confirm Mapped T. Confirm Mapped T. Confirm Mapped T. Pepth Horizon Marix color Mottle color/abundance Pistisic Epipedon High Org. Content in Surface Layer of Sendy Soils Listed on Local Hydric Convex Soil Saturate Approx Ground Surface Inundated Soil Saturated Oxidized Root Channels in upper 12 inches. Depth to Free Water inches. Depth to Saturated Soils inches. Vetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches. Water Marks Dorift Lines Morphological Plaint Adaptations Other (Explain in Remarks) Other (Explain in Remarks)	ld
Series and Phase: CAP Chaumont Silty Clay Drainage Class: Confirm Mapped T. Depth Horizon Matrix color Mottle color/abundance Depth Horizon Matrix color Situative, Oil Saturated. Remarks: Conceve Industry Indicators Remarks: Opeth to Free Water Inches. Depth to Free Water Inches. Depth to Free Water Inches. Depth to Saturated Soils Inches. Vetland Hydrology Indicators: Primary Indicators: Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches. Water Marks Drift Lines Mottphological Plant Adaptations Other (Explain in Remarks) Other (Explain in Remarks)	
Series and Phase: CAP Chaumont Silty Clay Drainage Class: Confirm Mapped T. Depth Horizon Matrix color Mottle color/abundance Depth Horizon Matrix color Situative, Oil Saturated. Remarks: Conceve Industry Indicators Remarks: Opeth to Free Water Inches. Depth to Free Water Inches. Depth to Free Water Inches. Depth to Saturated Soils Inches. Vetland Hydrology Indicators: Primary Indicators: Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches. Water Marks Drift Lines Mottphological Plant Adaptations Other (Explain in Remarks) Other (Explain in Remarks)	26
Series and Phase: (AA) Chaumont Silty Clay Drainage Class: Confirm Mapped Ty Texture, Structure, Other Concretions Histicols Histicols Histicols Histicols Concretions Histicols Histicols Concretions Concretions Histicols Concretions Concretions Concretions Histicols Concretions	
Series and Phase: (AA) Chaumont Silty Clay Drainage Class: Confirm Mapped Ty Texture, Structure, Other Concretions Histicols Histicols Histicols Histicols Concretions Histicols Histicols Concretions Concretions Histicols Concretions Concretions Concretions Histicols Concretions	
Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Ord 2-10! A	
Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Ord 2-10! A	WD MWD SPD PD VPD
Depth to Free Water Inches. Depth to Free Water Inches. Depth to Saturated Soils Inches. Depth to Saturated Soils Drift Lines Depth Lines Depth to Saturated Soils Drainage Patterns in Wetland Drainage Patterns in Wetland Depth to Saturates Depth to Saturates Depth to Adaptations Depth in Remarks; Depth to Adaptations Depth in Remarks Depth to Adaptations Depth to Saturated Soils Drainage Patterns in Wetland Depth in Remarks Depth in Remarks Depth in Remarks Depth to Saturated Soils Depth in Remarks Depth to Saturated Soils Dep	ype: (Yes No
Depth to Free Water	ner
Hydric Soil Indicators: Histisols Histis Epipedon Histis Epipedon Histis Epipedon Misic Codor Reducing Conditions Gleyed or Low Chroma color Concave Concave Interest Approx Gleyed or Low Chroma color Remarks: Gramarks: Field Observations Ground Surface Inundated Depth to Free Water inches. Depth to Saturated Soils inches. Vetland Hydrology Indicators: Financy Indicators: Gramarks: Gramarks: Gramarks: Gramarks: Gramarks: Gramarks: Gramarks: Gramarks: Field Observations Ground Surface Inundated G	in
Hydric Soil Indicators: Histiscols — Concretions — High Org. Content in Surface Layer of Sandy Soils — Suffdic Odor — Organic Streaking in Sandy Soils — Reducing Conditions — Gleyed or Low Chroma color — Aquic Moisture Regin — Listed as Potential for — Aquic Moisture Regin — Aquic Moisture Regin — Approx — flat — Undulating — Sloping — Approx — Recorded Data (Describe in Remarks) — No Recorded Data Available — Stream, Lake or Tide Gauge — Aerial Photographs — Depth to Free Water — inches. — Depth to Free Water — inches. — Depth to Saturated Soils — inches. Vetland Hydrology Indicators: — Primary Indicators: — Primary Indicators — Water Marks — Drift Lines — Water Marks — Drift Lines — Sediment Deposits — Drainage Patterns in Wetland — Concretions — Listed on Local Hydro — Listed on Local Hydro — Aquic Moisture Regin — Approx — Sloping — Approx — Sloping — Priced Observations — Ground Surface Inundated — Soil Saturated — Oxidized Root Channels in upper 12 in Ches. — Water-Stained leaves — Water-Stained leaves — Local Soil Survey — Morphological Plaint Adaptations — Other (Explain in Remarks) — Other (Explain in Remarks)	
Hydric Soil Indicators: Flistic Flistic Fippedon	
Histisols Concretions Listed on Local Hydric Epipedon High Org. Content in Surface Layer of Sundy Soils Listed as Potential for Sufface Coder Organic Streaking in Sandy Soils Other (Explain in Rem Aquic Moisture Regim Landscape position: Concave	
Histisols Concretions Listed on Local Hydric Epipedon High Org. Content in Surface Layer of Sundy Soils Listed as Potential for Sufface Coder Organic Streaking in Sandy Soils Other (Explain in Rem Aquic Moisture Regim Landscape position: Concave	
Histic Epipedon	
Sulfidic Odor Organic Streaking in Sandy Soils Other (Explain in Rem. Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regim Approx flat	
Remarks: Concave convex sloping Approx flat Woundlating Remarks: Remarks: Remarks: Remarks: Remarks: Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Perimary Indicators: Primary Indicators Primary Indicators Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Conorex convex sloping Approx Sloping Approx Field Observations Field Observations Field Observations Field Observations Field Observations Ground Surface Inundated Soil Saturated. Depth to Free Water inches. Depth to Saturated Soils inches. Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) Drainage Patterns in Wetland	
Remarks: Concave	(2)
Remarks: A County Soil ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Vetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required)	ie .
ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Primary Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Water Marks Dorift Lines Sediment Deposits Sediment Deposits Drainage Patterns in Wetland Field Observations Frield Observations Ground Surface Inundated Soil Saturated. Ocidized Root Channels in upper 12 inches. Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Vetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Semarks: Pield Observations Ground Surface Inundated Soil Saturated. Soil Saturated. Soil Saturated. Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	
No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Vetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required)	
Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Perimary Indicators: Primary Indicators Inundated	A
Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Perimary Indicators: Primary Indicators Inundated	inches.
Depth to Free Waterinches. Depth to Saturated Soilsinches. Primary Indicators: Primary Indicators Secondary Indicators (2 or more required)	
Vetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	
Primary Indicators Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Morphological Root Channels in upper 12 inches. Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	
Primary Indicators Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Morphological Root Channels in upper 12 inches. Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	
Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Patterns in Wetland Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	
Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland	nches
Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland	
Sediment DepositsOther (Explain in Remarks)Drainage Patterns in Wetland	y≹1
Drainage Patterns in Wetland	
emarks:	(.
ha hoteland hudlan loss	
THE DOMEST DESCRIPTION OF PROPERTY OF THE PROP	
110 000110001 11 10 10 10 1	

Project Number:	05030 Horse Creek Windpower		, at			Date: 10/10/07 Plot ID Number: C3 UPL
			_==			
VEGETATION		(a)				
Domi	nant Plant Species:	St	ratum: (e	irde t	ine)	Indicator: % Cover:
1 time	other	1	S/S	Т	v	FACU 70_
	nné's lace	(P)	S/S	T	v	N1 30
	grass	B	S/S	T	v	FACU- 30
4 bird	s foot tretoil	(H	S/S	T	v	FACU- 15
s piw		(H)	S/S	т	v	FACU+ 10
6 Nd	dover	8	S/S	r	ν	FACU- 5
3	UL OV	н	S/S	T	v	Film
- Marko	v. honey Everen	н		Т	7	FACU 5
		-		<i>I</i>		1744
		н	S/S	1	Υ	
		н	S/S	T	V	
		н		T	V	· · · · · · · · · · · · · · · · · · ·
		Н	S/S	T	V	A. I.
13	* ************************************	H	S/S	T	V	
14		H	S/S	T	V	
15		н	S/S	T	V	
16		н	S/S	T	v	
	a i on rigurio D		*******			
Percent of Domina	nt Species OBL, FACW, FAC	Market Control	^			Percent of Dominant Species OBL, FACW
	50/20 Rule	Applied?	(Ves	No		*
Remarks:	\$	444 542 ht 20 annionale 2 24				
WETLAND DETER	RMINATION					
Hydrophytic Vegeta	ation Present? Yes or No	Hydric	c Soils P	rese	nt?	Yes or No
Wetland Hydrology	Present? Yes or No	ls this	Samplin	g Po	oint Wi	fithin a Wetland? Yes or No
Hydrologic Connec	tivity to Off-site Wetlands? Yes or No	Is this	Wetland	Pot	entially	ly Isolated? Yes or No
Remarks:			_			Photo Reference Number:
- 25		*				

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

NE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual

Investigator: Pippin/Stebbins County: Jefferson State: NY Do normal circumstances exist on site? Ves No Community: PEM Is the site significantly disturbed? Yes No Transect/Flag ID: D Is the area a potential Problem Area? Yes No Plot ID: D4 WCf	Project No: 05030 Applicant: Horse Creek Windpower	Date:	10/10/07
Do normal circumstances exist on size? Cyla No Community: DM		Town:	e orleans
Do normal electromestances exist on site? Cyla No Community: Dem	Investigator. Pippin/Stebbins	County:	Jefferson
Is the site significantly disturbed? Is the area a potential Problem Area? Yes No Plot ID: DH WUH SOILS Series and Phase: (CID Chammont Sitty Clay Drainage Class: WD MWII SEDYD VPD Confirm Mapped Type: No Confirm Mapped Type: No Confirm Mapped Type: No No Depth Horizon Marks color O-9" A 255 y 251			NY
Is the site significantly disturbed? Is the area a potential Problem Area? Yes No Plot ID: DH WUH SOILS Series and Phase: (CID Chammont Sitty Clay Drainage Class: WD MWII SEDYD VPD Confirm Mapped Type: No Confirm Mapped Type: No Confirm Mapped Type: No No Depth Horizon Marks color O-9" A 255 y 251	Million of the contract of the	PEN	
SOILS Series and Phase: (CID) Chammont Sitty Clay Drainage Class: WD MWI SEDYD VPD Subgroup: HCNC Ochampualts Confirm Mapped Type: (S) No Depth Horison Marks color Ocyanic Structure, Other O-9" A 255 y 251	Do normal circumstances exist on site? [Yes No Com	munity: PON	
Sories and Phase: (CIC) Chawrort Silty day Subgroup: Acroic Ochraqualfs Depth Horizon Matrix color Moutle color/abundance O-9" A 25 y 25/1 B 25 y 4/1 Hydric Soil Indicators: Histiscips Histiscips Histiscips Histiscips Histiscips Histiscips Histiscips Histiscips Histiscips Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave	Is the site significantly disturbed? Yes No Transect/F		
Series and Phases (CIB) Chammont Silty day Drainage Class: WD MIVIT SED YD VPD Subgroup: Acnot Ochmanulfs Confirm Mapped Type: (Fe) No Depth Horizon Matrix color O-9" A 25 Y 25/1 B 25 Y 4/1 Hydric Soil Indicators: History History History History History High Org. Content in Surface Layer of Sandy Soils Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Culy Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moistrare Regime Landscape position: Concave Convex Sloping Approximate slope: TYDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Acrial Photographs No Recorded Data Acrial Photographs Field Observations NO Ground Surface Inundated Stream, Lake or Tide Gauge Aerial Photographs Depth to Securated Soils Dinches Wetland Hydrology Indicators: Primary Indicators: Primary Indicators Water Marks Drinage Patterns in Wetland Drainage Patterns in Wetland Other (Explain in Remarks) Other (Explain in Remarks) Confirm Mapped Type: (Fe) No Texture, Structure, Other Cary Texture, Structure, Other Clay Clay Listed on Local Hydric Soils List Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Culy Other (Explain in Remarks) No Recorded Data (Describe in Remarks) No Ground Surface Inundated No Ground Surface Inundated No Ground Surface Inundated No Ground Surface Inundated No Ground Surface Inun	Is the area a potential Problem Area? Yes No	Plot ID: D4 wcf	<u> </u>
Series and Phases (CIB) Chammont Silty day Drainage Class: WD MIVIT SED YD VPD Subgroup: Acnot Ochmanulfs Confirm Mapped Type: (Fe) No Depth Horizon Matrix color O-9" A 25 Y 25/1 B 25 Y 4/1 Hydric Soil Indicators: History History History History History High Org. Content in Surface Layer of Sandy Soils Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Culy Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moistrare Regime Landscape position: Concave Convex Sloping Approximate slope: TYDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Acrial Photographs No Recorded Data Acrial Photographs Field Observations NO Ground Surface Inundated Stream, Lake or Tide Gauge Aerial Photographs Depth to Securated Soils Dinches Wetland Hydrology Indicators: Primary Indicators: Primary Indicators Water Marks Drinage Patterns in Wetland Drainage Patterns in Wetland Other (Explain in Remarks) Other (Explain in Remarks) Confirm Mapped Type: (Fe) No Texture, Structure, Other Cary Texture, Structure, Other Clay Clay Listed on Local Hydric Soils List Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Culy Other (Explain in Remarks) No Recorded Data (Describe in Remarks) No Ground Surface Inundated No Ground Surface Inundated No Ground Surface Inundated No Ground Surface Inundated No Ground Surface Inun			
Horizon	sons		
Horizon	Series and Phase: (CIB) Chaumont Silty day	Drainage Class: V	VD MWD SPD PD VPD
Horizon	Apple Ochrapus OCC		
Hydric Soil Indicators: Histisels Concretions Histisels Concretions Histisels Concretions Histisels Concretions Histisels Listed on Local Hydric Soils List Listed on Local Hydric Inclusions Culy Color (Explain in Remarks)	Subgroup: 110110 Varioquaets	Confirm Mapped Type:	Yes/No
Hydric Soil Indicators: Histicols	Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other	=
Hydric Soil Indicators: Histisols Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Soifide Odor Reducing Conditions Gleyed or Low Chroma color Concave Int Concave Remarks: Concave Conc	0-8" A 25Y 25/1	Clar	
Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Histisols Listed as Potential for Hydric Inclusions Culy Sofidic Odor Organic Streaking in Sandy Soils Cother (Explain in Remarks) Reducing Conditions Concave Concave Concave Int Undulating Remarks: Field Observations Field Observations	Q-111 R 25411	da	
Histiscles	0-16+ 0 534 4/1	any	
Histisels			
Histic Epipedon	Hydric Soil Indicators:		
		Listed on Local Hydric Soils I	List
Remarks: Concave	Histic Epipedon High Org. Content in Surface Layer of Sandy Soils		
Concave	Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)	
Remarks: Remarks	Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime	
Remarks: Remarks			
Remarks: Recorded Data (Describe in Remarks) Field Observations More Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water		slopingApproximate s	lope:
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Inundated	ilat undulating		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Inundated	**************************************		
Recorded Data (Describe in Remarks) Field Observations	Remarks:		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water inches. Depth to Saturated Soils inches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Noted Batterness in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Field Observations // Ground Surface Inundated	- A		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water			0
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water			7
No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Inundated			
Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Soil Saturated. Soil Saturated. Saturated. Soil Saturated. Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Recorded Data (Describe in Remarks) Field Observations	Superior N/A in	
Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Coxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Sediment Deposits Drainage Patterns in Wetland			IIIS.
Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Saturated Soils inches. Secondary Indicators (2 or more required) Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)			
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Depth to Free Water_	inches.	
Primary Indicators Secondary Indicators (2 or more required) Local Soil Survey Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Got Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Depth to Saturated Sor	ilsinches.	
Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Wetland Hydrology Indicators:		
Saturated in upper 12 inches. Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland		2 or more required)	
Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland		ed Root Channels in upper 12 inches	
Drift Lines Sediment Deposits Drainage Patterns in Wetland Morphological Plant Adaptations Other (Explain in Remarks)	Saturated in upper 12 inches Water-	Stained leaves	
Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Welland		EPLANO PATA DECIMA	
Z Drainage Patterns in Wetland			M
		Explain in Remarks)	1,
Remarks:	Drainage Patterns in Wetland	V == 1.	* 118
	Remarks		
	Attuat R54		
		*	
	A 740		

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/10/07 Plot ID Number: DH wet
Dominant Plant Species: 1	Stratum: (circle cose) H S/S T V S/S T V S/S T V H S/S T V	Indicator: %Cover: DBL 40 FACW+ 20 FACW 10 FACW/BBL 60
Percent of Dominant Species OBL, FACW, FAC_100% 50/20 Rule App	2	t of Dominant Species OBL, FACW_LDO 76
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola	

....

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

05030 Applicant: Horse Creek Windpower Project No: Date: Town: Jefferson Investigator: Pippin/Stebbins County: NY State: SCNS. Sh You No Do normal circumstances exist on site? Is the site significantly disturbed? Transcct/Flag ID: Is the area a potential Problem Area? SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Mortle color/abundance Texture, Structure, Other Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Concretions Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Organic Streaking in Sandy Soils Sufidic Odor Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Approximate slope: sloping Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water___ Depth to Saturated Soils_ inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: no wetland hydrology

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: Applicant:	05030 Horse Creek Windpower	A	2		101 20	Date: 10/10/07 Plot ID Number: D4 UPC
<u> </u>			750		=	
VEGETATION						
	nant Plant Species:	St	tratum:	(circle	0nc)	Indicator: % Cover:
1 Tant	av. Honeysuckle	H	(S/S)	T	· V	FACU ZO
2 grei	doswood	н	SIS	T	v	FAC 80 -
3 FUT	breathorn	H	S/9	T	V	UPL 40 -
4		н	S/S	T	v	- 10 L
s mild	Strow beny	(H)	S/S	T	v	FACU 5
	oda golderod	6	S/S	T	ν	FACU 30 -
7		н	S/S	T	v	No.
. 8		н	S/S	T	v	
	**	н	S/S	т	ν	
		н	S/S	т	v	
		н	S/S	т	v	
		. н	S/S	т	N/	
		н	S/S	·	¥7	**************************************
				~	v	
		н	S/S		ν.	
		H	S/S	T	V	· · · · · · · · · · · · · · · · · · ·
16		H	S/S	T	V	
Percent of Dominar	nt Species OBL, FACW, FAC 33 %				**********	Percent of Dominant Species OBL, FACWO
	50/20 Rule	Applied?) No		
***************************************	33693755 to professor university and another content of the professor of t	*****************	ACTE 10 10 10 10 10 10 10 1	*****		
Remarks:						
			21			
		The State of the S				
WETLAND DETER	MINATION					
Hydrophytic Vegeta	\wedge	Hydri	c Soils	Prese	nt?	Yes or No
	Present? Yes or No					Within a Wetland? Yes or No
	tivity to Off-site Wetlands? Yes or No					illy Isolated? Yes or No
Remarks;			**********			Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinestion Manual

Investigator: Pippin/Stebbins Do normal circumstances exist on site? See No Community: Is the site significantly disturbed? Yes No Transect/Fiag ID:	Town: Jefferson State: NY
Do normal circumstances exist on site?	V PROPERTY OF THE PROPERTY OF
Ca	State: NY
Ca	
Ca	
Is the site significantly disturbed? Yes (No) Transect/Flag ID:	7-33
	D
Is the area a potential Problem Area? Yes No Plot ID:	DZZ Wel
ons	
Series and Phase: (CIB) Chaumont Sitty yau	Drainage Class: WD MWD (SP) PD VPD
April Aplane	
Subgroup: 110110 OCN/AGUNITS	Confirm Mapped Type: Ye No
n -11: 1 :	Texture, Structure, Other
0-12" A 104R3/1 NONC	Clayey roam
12"+ B 104R S/1 104R S/2 MANY	Man
12"+ B loyr s/1 loyn spo many	Cross
Hydric Soil Indicators:	
	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer of Sandy Soils1	Listed as Potential for Hydric Inclusions Only
Suffdie OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
	Aquic Moisture Regime
Reducing Conditions	
Reducing Conditions	Aquic Moisture Regime
	Aquic Moisture Regime Approximate slope:
Reducing Conditions	Aquic Moisture Regime Approximate slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave convex sloping undulating Remarks: Remarks: Remarks: Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Stream Lake Stream Field Observations Field Observations Ground Surface	Aquic Moisture Regime Approximate slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave	Aquic Moisture Regime Approximate slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave convex sloping undulating Remarks: Remarks: Remarks: Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Approximate slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave convex sloping undulating Remarks: TOROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water MA	Approximate slope: Approximate slope: Inundated MA inches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave convex sloping undulating Remarks: Remarks: Remarks: Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Machanism Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more	Approximate slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave convex sloping undulating Remarks: Remarks: Remarks: Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Manager Convex sloping undulating Wetland Bydrology Indicators: Primary Indicators Inundated Coxidized Root Convex sloping and sloping undulating Field Observations Field Observations Field Observations Depth to Surface Soil Saturated. Depth to Free Water Manager Surface Coxidized Root Coxidized	Approximate slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave convex sloping undulating Remarks: Remarks: Remarks: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Stream Convex convex sloping undulating Field Observations NO Ground Surface L/CS Soil Saturated. Depth to Free Water //A Depth to Saturated Soils	Approximate slope: Approximate slope: Inundated M/A inches. inches. inches. inches. te required) Channels in upper 12 inches eaves
Remarks: Concave	Approximate slope:
Remarks: Concave	Approximate slope: Approximate slope: Inundated N/A inches. inches. inches. re required) Channels in upper 12 inches eaves eaves ey Plant Adaptations
Remarks: Concave	Approximate slope: Approximate slope: Inundated N/A inches. inches. inches. re required) Channels in upper 12 inches eaves eaves ey Plant Adaptations
Remarks: Concave	Approximate slope: Approximate slope: Inundated N/A inches. inches. inches. re required) Channels in upper 12 inches eaves eaves ey Plant Adaptations
Remarks: CDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Primary Indicators Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Convex convex sloping undulating Field Observations Field Observations Field Observations Field Observations Field Observations Doround Surface JOS Soil Saturated. Depth to Free Water Depth to Saturated Soils Water-Stained & Water-Stained & Water-Stained & Water-Stained & Water Marks Dorift Lines Sediment Deposits Other (Explain in	Approximate slope: Approximate slope: Inundated N/A inches. inches. inches. re required) Channels in upper 12 inches eaves eaves ey Plant Adaptations

Fig. 2. Sec. 1. April 1988	*,	- F	10/10/07
Project Number: 05030			10/10/07
Applicant: Horse Creek Windpower		Plot ID Number:	24 WEX
VEGETATION			
Dominant Plant Species:	Stratum; (circle one)	Indicator:	% Cover:
1_willow	H SR T V	FACW/DBL	90 70
2 gray dogwood	H SIS T V	_FAC	
2 grey dogwood	H S/S T V		
4 Sensitive ar	S/S T V	FACW	50
5 fied horsefail	€ SAS T V	FAC	60
6 Truelveed	B S/S T V	FACW	20
6 frwelveed 1 wetland grass	GR S/S T V	FACW/OBL	30
8 Sphannum	B) S/S T V	FACW/DBC	40
, jot bye weed	H) S/S T V	FACW	20
10	H S/S T V		
11	H S/S T V		
. 12	H S/S T V		
13	H S/S T V	W	
14	H S/S T V		
15	H S/S T V		
16	H S/S T V	Topological	
Percent of Dominant Species OBL, FACW, FAC	Perc	cent of Dominant Species OBL,	FACW
50/20 Rule	Applied? Yes No	•	
		***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Remarks:			
WETLAND DETERMINATION		0	
Hydrophytic Vegetation Present? (yes or No	Hydric Soils Present?	(Yes)or No	×
Wetland Hydrology Present? (Yes or No	Is this Sampling Point Within	T	
Hydrologic Connectivity to Off-site Wellands? Yes or No Remarks:	Is this Wetland Potentially Iso	olated? Yes o Photo Reference Number.	r (Vo)
Kemaks.		That Reference (4th loc).	
		* 5	*

B...

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Wi	ndpower	Date:	10/10/07
· · · · · · · · · · · · · · · · · · ·	₹	Town:	1 Chim Urlean
Investigator. Pippin/Stebbins		County	Jefferson
		State:	NY
Do normal circumstances exist on site? Yes No	Community:	forest u	pland
Is the site significantly disturbed? Yes No	Transect/Flag ID:	D	
Is the area a potential Problem Area?	Plot ID:	DZZU	pe
SOILS (C.O.) Of the state of th	-10		
Series and Phase: (CIB) (haumont	SI Ity Clay 1	Drainage Class:	WD MWD SPD PD VPD
Series and Phase: (CIB) Chaumont. Subgroup: ACNC OChraquatt	3 0	Confirm Mapped Type:	(Ve) No
		xture, Structure, Other	
0-6" A 25 4/2	hone	clayey 1	oam
6"+ west succes		2 1	
6"+ rijects auger			
	80		
Hydric Soil Indicators:			n s*
HistisolsConcretions		sted on Local Hydric Soils	
Histic EpipedonHigh Org. Content in Surface L		sted as Potential for Hydric	: Inclusions Only
Sufidic OdorOrganic Streaking in Sandy Soi		her (Explain in Remarks)	
Reducing ConditionsGleyed or Low Chroma color	Aq	pic Moisture Regime	
		- 5	
Landscape position: concave	convexsloping	Approximate:	slope:
flat u	andulating		
*		440347476843484544414446444144444444444444444	Action of the second se
Remarks:			
1. * '	3 3 3		
TYDROLOGY		\$ V	
Recorded Data (Describe in Remarks)	Field Observations		
No Recorded Data Available	Ground Surface In	undatedinc	ches.
Stream, Lake or Tide Gauge	Soil Saturated,		
Aerial Photographs	Depth to Free Water in	iches.	
	Depth to Saturated Soils	inches.	
	Deput to Saturated Soils	miches.	
Wetland Hydrology Indicators:	P		
Primary Indicators	Secondary Indicators (2 or more of		
Inundated		annels in upper 12 inches	
Saturated in upper 12 inches.	Water-Stained leav	res	
Water Marks	Local Soil Survey		20
Drift Lines	Morphological Pla		
Sediment Deposits Drainage Patterns in Wetland	Other (Explain in I	Remarks)	
	11 11 Parishana and an annual an annual and an annual	THE STREET STREET	
Remarks;			
no wetland hy	dimensi		
IN ANDITORES ATO	N'ElWY		
			•
\edr office files\forms\Data Form Routine Wetland De	termination.xls	(4)	

Project Number: 05030 Applicant: Horse Creek Windpower		Date: Plot ID Number:	DZZ UPL
VEGETATION Dominant Plant Species: 1 Basswood 2 White Oak 3 hophorn beam 4 grey do swood 5 6 7 penn-soace 8 wild stawn 9 agrinsm 10 11 12 13 14	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACU- FACU- FACU- FACU FACU FACU FACU	% Cover. 70 20 20 10 80 3 5
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule App	Percen	t of Dominant Species (DBL, FACW
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or 160 Wetland Hydrology Present? Yes or 160 Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola		Yes or No Yes or No ber:

DATA FORM

. 274 North Goodman Street Rochester, New York 14607

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual

Project No: 0503	0 Applicant: H	orse Creek Windpower	Date:	10/10/07
			Town:	Orleans
Investigator: Pippin/S	Stebbins	0	County:	Jefferson
			State:	NY
***************************************		7 7		***************************************
Do normal circumstance	s exist on site?	Yes No	Community: PFO	<u></u>
Is the site significantly di	isturbed?	Yes No Ti	ansect/Flag ID: $E/-/$	4
Is the area a potential Pro		Yes Ad	Plot ID: E2 1	dt
25 the area a potential Fit	Joietti Areat	- W	rocab. <u> </u>	<i>p</i> c ₁
	727-013-			
SOILS	\ (/	1 -11 -1		6
Series and Phase: (C)	(A) (naur	nont silty Uo	U Drainage Class:	WD MWD SPD PD VPD
Subgroup: Am	cochrag	nont silty cla malfs	Confirm Mapped Typ	oc: (Yes)No
				•
Depth Horizon	Matrix color	Mottle color/abundance	Texture, Structure, Othe	
0-3 0	019	anc matter		
0-10". A	IDYR ZII	none	silta la	an
12 11 12		710	7/10/10	
10-16+ B	104x 7/1	none	SIM	clan
Hydric Soil Indicators:			0	
Histisols	Concretions		Listed on Local Hydric !	Soils List
Histic Epipedon	High Org. Con	tent in Surface Layer of Sandy Soils	Listed as Potential for H	
Sulidic Odor		ing in Sandy Soils	Other (Explain in Rema	
Reducing Condition			Aquic Moisture Regime	
		Va.		
Landscape position:	concave	Convex_	slopingApproxir	nate slope:
	Ont	undulating		

Remarks:	* * *			
	3			
	Ø			
		200	V 190	***
HYDROLOGY				
Recorded 1	Data (Describe in Remarks)	Field Observa	itions IIIA	
	No Recorded Data Avi	ilable	Ground Surface Inundated WA	inches.
	Stream, Lake or Tide (auge ///	Soil Saturated.	
· · · · · · · · · · · · · · · · · · ·	Aerial Photographs	Don't or Pro-	W N/A	
		Depth to Free	1 M	
1 72	пь	Depth to Satur	ated Soils N/A inches.	
Wetland Hydrology Indi	cators:		8 " 4	
Primary In-	dicators	Secondary Indi	icators (2 or more required)	
_	Inundated		Oxidized Root Channels in upper 12 in	ches
-	Saturated in upper 12 i	oches,	Water-Stained leaves	
X	Water Marks		Local Soil Survey	
× .	Drift Lines	X	Morphological Plant Adaptations	170
	Sediment Deposits		Other (Explain in Remarks)	
X	Drainage Patterns in W	etland		w.
Remarks:	************************************	***************************************		
Venue 10:				*
\$ 1	750			
'ledr office filestorms	Data Form Pouting	Wetland Determination.xls	*	,
Teal pince meadoning	Summer of the state of the stat	* 4 CHAIN DETERMINATION . ALS		

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/16/07 Plot ID Number: E2 Web
Dominant Plant Species: 1 Ald maple 2 Slipping elm 3 4 high bush blackery 5 Winter 6 Rubus hispidus 7 red mape: 8 9 I retland conex 10 Lycopus uni Harus 11 12 13	Stratum: (circle one) H S/S T V H S/S T V	Indicator: %Cover: FAC 60 - FAC 20 - FACW- 10 FACW+ 10 FACW 20 - FAC 60 - FACW 10 - DBL 10 -
15 16	H S/S T V H S/S T V	
Percent of Dominant Species OBL, FACW, FAC 100% 50/20 Rule Appl Remarks: SpowSe Web layer		nt of Dominant Species OBL, FACW_502
AND DESCRIPTION		*
WETLAND DETERMINATION Hydrophytic Vegetation Present? For No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a listhis Wetland Potentially Isola	

DATA FORM

· 274 North Goodman Street

ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual Applicant: Horse Creek Windpower Project No: Date: Charles Orleans Town: Investigator. Pippin/Stebbins Jefferson County: NY State: Do normal circumstances exist on site? Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: (Ye) No Texture, Structure, Other Matrix color Mottle color/abundance 10YR 4/2 hone 10 YR 7/1 Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sulidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color ___ Aquic Moisture Regime Landscape position; concave sloping Approximate slope: convex Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water_ Depth to Saturated Soils inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Morphological Plant Adaptations Drift Lines Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks: ho wetland hydrology

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030		Date: 10	110/07
Applicant: Horse Creek Windpower		Plot ID Number:	2 UPL
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator.	% Cover.
1 Sugar maple	H S/S TV	FACU-	60
1 Sucar mapu 2 red oak	H S/S (T) V	FACU-	40
3 hem lock	H S/S (T) V	FACU	20
4 black Chemy	н s/s (д) v	FACY	20
5	H S/S T V		
6 black ches	H SA T V	FACU	30
1 blackberry	H SE T V	FACU-	30
8	H S/S T V		
9 Int wood fern	(B) S/S T V	FACU	10
10 bracked from	OF SIST V	FACH	10
11	H S/S T V	15	
12	H \$/\$ T V		
13	H S/S T V		
14	H S/S T V		- NC
15	H S/S T V		
16	H S/S T V		
		00 plinkility roomer manager to have a 2000 of 27777 F194	**************************************
Percent of Dominant Species OBL, FACW, FAC	Percer	nt of Dominant Species OBL, 1	FACW
50/20 Rule App	olica? Kes No		

Remarks:	1 6		
Sparse hub laye			
Sporisi 1 - 1001			
		1	
WETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No	
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a	Wetland? Yes or	(GO)
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isola		· No
Remarks:	* =	Photo Reference Number:	No.

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delinearion Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/10/07
	Town: Or Can
Investigator: Pippin/Stebbins	County: Jefferson
	State: NY
Do normal circumstances exist on site? Yes No pastrol	unity. Wet meadow/pastire
Is the site significantly disturbed? Yes No 400 to Transcct/Fle	ag ID: F-noflags
U _A 10	oil F wet.
OILS	502
Series and Phase: (GV) Guffin day	Drainage Class: WD MWD SPD (PD VPD)
mallie ilani.	
	Confirm Mapped Type: (No
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
0-4" A 104R3/1 hone	Stilt clay
4-16+ B HOYR 3/1 101R 7/2 104R 5/8 Many	clay
Hydric Soil Indicators:	
HistisolsConcretions	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
Sufficie OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing ConditionsYGleyed or Low Chroma color	Aquic Moisture Regime
Landscape position: concave convex slo	oping Approximate slope;
flat Vundulating	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Remarks:	u w
Remarks: man-made dranage ditch from past	W.C
PROLOGY	
Recorded Data (Describe in Remarks) Field Observations	11/4
No Recorded Data Available 10 Ground S	Surface Inundated NA inches.
Stream, Lake or Tide Gauge Soil Satu	rated Moist
Aerial Photographs Depth to Free Water_N	1/A inches
Depth to Saturated Soils	11/A inches
	1 p 11 menes.
Wetland Hydrology Indicators:	armon marinal
Primary Indicators Secondary Indicators (2 Inundated X Oxidized	Root Channels in upper 12 inches
	ained leaves
Water Marks Local Soi	
	ogical Plant Adaptations
Sediment Deposits Other (Ex	xplain in Remarks)
Drainage Patterns in Wetland	
Remarks:	
hummocky terrain	
Marine Marketine III and a service of	
edr office files\forms\Data Form Routine Wetland Determination.xls	

Project Number:	05030	- 1		10/07
Applicant:	Horse Creek Windpower		Plot ID Number: 7	WET.
VEGETATION Domi 1 Soft 2 Wood 3 fox 4 //is 5 6 Ald O	mant Plant Species: MS4 MS5	Stratum: (circle coce) H S/S T V H S/S T V R S/S T V H S/S T V	Indicator: FACW+ OBL DBL FACW+ FACW+ FACW FACW	%Cover: 70 - 30 - 20 - 10
9_ <i> \mui lot</i> 10		H S/S T V	FAW/OBL	20 -
***************************************	nt Species OBL, FACW, FAC	Perce ule Applied? (Ye) No	ent of Dominant Species OBL, FA	acw <u>80</u> 2
Remarks:				
		Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso	olated? Yesyor I	
Remarks:			Photo Reference Number:	

i.e.

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/10/07
	Town: Orkans
Investigator: Pippin/Stebbins	County: Jefferson
	State: NY_
Do normal circumstances exist on site? (X2 No	unity: Active As - Hayfield
Do normal circumstances exist on site? Let No Active Ab Community list the site significantly disturbed? Transect/Fia	ng ID: F
	or ID: F UPL
SOILS .	
Series and Phase: (GV) Guffin Clay	Drainage Class: WD MWD SPD PD VPD
Subgroup: Mollic Happanests	Confirm Mapped Type: Yes No
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
Hydric Soil Indicators: Histisols Concretions	Listed on Local Hydric Soils List
High Org. Content in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
Suffic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing Conditions Gleyed or Low Chroma color	Aquic Moisture Regime
Landscape position: concave convex slo	opingApproximate slope:
flat undulating	
Remarks:	
ho soils data collected - actively gray doswood heages	ag haufield
il a van documed heave o	0.2
my your august maye's	urounding
HYDROLOGY	
Recorded Data (Describe in Remarks) Field Observations	
	surface Inundatedinches.
Stream, Lake or Tide Gauge Soil Satur Aerial Photographs	rated.
Depth to Free Water	inches.
Depth to Saturated Soils	înches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators (2 of	
InundatedOxidizedWater-Sta	Root Channels in upper 12 inches
	gical Plant Adaptations
	eplain in Remarks)
Drainage Patterns in Wetland	
Remarks:	
4	
s-tedr office filestforms\Data Form Routine Wetland Determination xls	

Project Number: Date:				•	¥°		36	WAY FO		v* - 1	av *		1.31
Applicant Horse Creek Windpower	Project Number:	05030	*		57				Date;		10/	10/07	(80a
Dominant Plant Species: Stratum: (close see) Indicator: 1	28 185		er				100	-	Plot ID Ņī		F	upl	
1 10 10 15 10 10 10 10	VEGETATION		81	Ą									
2	Domi	inant Plant Species:		Str	atum:	(circle (00c)					% Cover:	
3 Grass - wfland 4	1 con.	retch		B	S/S	T	· v		N	_		5	
## SKS T V ## SKS				1	S/S	T	v	1-	NL	15		5	
## SKS T V ## SKS	3 gras	5 - upland		A	S/S	T	v	13	FAC	И		100	
## SKS T V ## SKS	4	La timothy?		H	S/S	T	v						
H S/S T V	5	. 0		H	S/S	T	v						
H S/S T V	6			H	S/S	T	v		Ya				
## S/S T V 10				п	S/S	T	v						
10 H S/S T V 11 H S/S T V 12 H S/S T V 13 H S/S T V 14 H S/S T V 15 H S/S T V 16 H S/S T V Percent of Dominant Species OBL, FACW, FAC D Forcent of Dominant Species OBL, FACW, FAC D Percent of Dominant Species OBL, FACW D S0/20 Rule Applied? Per No Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No	8		2 (A)	н	S/S	Т	v						
10 H S/S T V 11 H S/S T V 12 H S/S T V 13 H S/S T V 14 H S/S T V 15 H S/S T V 16 H S/S T V Percent of Dominant Species OBL, FACW, FAC D Forcent of Dominant Species OBL, FACW, FAC D Percent of Dominant Species OBL, FACW D S0/20 Rule Applied? Per No Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No	9			н	S/S	Т	v						
11				H	S/S	т	v						
H S/S T V 14 H S/S T V 15 H S/S T V 16 H S/S T V Percent of Dominant Species OBL, FACW, FAC D Forcent of Dominant Species OBL, FACW, FAC D No Remarks: WETLAND DETERMINATION Hydroloptic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No				H	S/S	T	V	,					
H S/S T V 14 H S/S T V 15 H S/S T V 16 Percent of Dominant Species OBL, FACW, FAC D S0/20 Rule Applied? Yes No Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within a Wetland? Yes or No Is this Wetland Potentially Isolated? Yes or No				н	United Story	Т	v					9	
H S/S T V 15					1.8500000 1.0000000		v				•		
H S/S T V 16					170,000	т	v		-		-		V ,
Percent of Dominant Species OBL, FACW, FAC D Percent of Dominant Species OBL, FACW P 50/20 Rule Applied? Pes No Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No				Nessen	135322	T	v						11
Percent of Dominant Species OBL, FACW, FAC D 50/20 Rule Applied? (Yes) No Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No				Tomas .			v		,				
Remarks: ACTURITY OF SOILS Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No	10	-		14	3/3								
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydric Soils Present? Yes of No Is this Sampling Point Within a Wetland? Yes of No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes of No	Percent of Domina	nt Species OBL, FACW, FAC		1?	P) No		Percent	of Dominant	Species	OBL, FA	acw <u>-</u>	***************************************
Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Is this Sampling Point Within a Wetland? Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No	Remarks:	utre ag	hayGeld	b		/	NE	we	d	¥.			
Wetland Hydrology Present? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No	WETLAND DETER	RMINATION		4			72						
Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes of No	Hydrophytic Vegeta	ation Present? Yes or No		Hydric	Soils !	Prese	nt?		Yes of No				8
	Wetland Hydrology	Present? Yes or No	J	s this	Sampli	ing Po	oint W	Vithin a 1	Wetland?		Yes of I	No)	
Remarks: Photo Reference Number:		tivity to Off-site Wetlands?	Yes or No J	s this '	Wetlan	d Poi	tential		***************************************	p m*1100 1111		€	**********
	Remarks:								Photo Refere	nce Nun	nber:		



Observer: Name: Pippin/Stabbns	Project Information: Name: Hoyse Creek
Weather: overcast	Number: 05030 Date: 10/10/07
Stream Name: Unnammed (10-1	
Stream Location (nearest road, structure, etc.): + white 62, Strock lan	d
Adjacent Community: Active Ag - Hayfield	s, Multiple Homest
Stream Gradient - gentle	
- steep	
Bank Width: 3-5 feet	
Stream Width: 2-4 fut	
Water Depth: no flow (4)	
Substrate: - Bed Rock - Boulder - Cobble - Gravel - Sand - Silt - Clay	
Instream Cover: - Undercut bank 50 me - Overhanging vegetation - Logs/woody debris	
- Deep pools - Other	
Flow: - Permanent	
Photo # G Channul Flag #'s ICG 1-6	
Additional Comments: _drift marks	
Soils = (CIB) Chammont silty o	lay, SPD, Aeric Ochraqual A
Orleans Twishp, Jefferson C	

DATA FORM
ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual 274 North Goodman Street Syracuse, New York 13202 Rochester, New York 14607

Project No: 05030 Applicant: Horse	Creek Windpower	Date:	10/10/07
The state of the s		Town:	En Orleans
Investigator: Pippin/Stebbins		County:	Jefferson .
		State:	NY
		State.	
Do normal circumstances exist on site? (Yes	No	Community: PFO	5
	C2	II / - /	'A
Is the site significantly disturbed? Yes	Trans	ect/Flag ID: H / - /	
Is the area a potential Problem Area? Yes	(G)	Plot ID: H3 M	res
Subgroup: Afric Ochrag Depth Horizon Matrix color 0-5" A 104R 4/1 104 5" bedrock Hydric Soil Indicators: Histisols Concretions		Drainage Class: Confirm Mapped Typ Texture, Structure, Other Older Listed on Local Hydric S Listed as Potential for Hydric S Aquic Moisture Regime slopingApproxim	olls List dric Inclusions Only cs)
Remarks:			
HYDROLOGY			
Recorded Data (Describe in Remarks)	Field Observation	ns	
No Recorded Data Availab	le //// Gn		_inches.
Stream, Lake or Tide Gaug	Soi	Saturated mo; s.f	
Aerial Photographs			
3º 40	Depth to Free Wat	er N/H inches.	
	Depth to Saturated	Soils N/A inches.	
Weiland Hydrology Indicators:			*
Primary Indicators	Secondary Indicate	ors (2 or more required)	
Inundated		idized Root Channels in upper 12 inc	bes
Saturated in upper 12 inche	,	ter-Stained leaves	
Water Marks		cal Soil Survey	
Drift Lines		rphological Plant Adaptations	
Sediment Deposits		per (Explain in Remarks)	• ` X.
Drainage Patterns in Wetlan	A	(maybe in technical)	,
Diaminge Fancius ill Wedai			7
Remarks:			B
The state of the s			
*	548		
2			
		*	
\edr office files\forms\Data Form Routine We	tland Determination.xls		

Project Number: 05030 Applicant: Horse Creek Windpower		Date: //C Plot ID Number: /	13 wet
Dominant Plant Species: 1 Green ash 2 3 4 Meadowsweet 5 Willow 6 grey do grood 7 8 9 wefland Covex 10 Wefland grass 11 Moss 12 13 14 15	Stratum: (circle one) H S/S T V H S/S T V	FACW+ FACW/OBL FACW/OBL FACW/OBL FACW/OBL	%Cover. 50 -1 20 50 - 40 50 30
Percent of Dominant Species OBL, FACW, FAC So/20 Rule Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Ves or No Wetland Hydrology Present? Ves or No Hydrologic Connectivity to Off-site Wetlands? Yes of No		lated? Yeso	r No
Remarks:		Photo Reference Nulmber:	

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Applicant: Horse Creek Windpower Project No: Date: Town: Jefferson Investigator. Pippin/Stebbins County. NY State; Do normal circumstances exist on site? Transcet/Flag ID: Is the site significantly disturbed? Is the area a potential Problem Area? Plot ID: SOILS WD MWD SPE PD VPD Drainage Class: Confirm Mapped Type: Subgroup: Mottle color/abundance Depth Horizon Manix color Texture, Structure, Other Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Aquic Moisture Regime Gleyed or Low Chroma color Landscape position: Approximate slope undulating No Stil taken- plowed Field HYDROLOGY Field Observations Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water Depth to Saturated Soils_ Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: no wetland hydrology s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: Applicant:	05030 Horse Creek Windpower			110/07 43 UPL
VEGETATION		*1		
Domi	nent Plant Species:	Stratum: (circle one)	Indicator.	% Cover:
1 Can	aoid	. (B) S/S T V	FACU	5
		by sis T V	INL	5
3 Wild	Strawborn	A S/S T V	FACU	5
	-d grass-han	/Hy S/S T V	FACU	: 100
5	0	H S/S T V		
6		H S/S T V		
		H ←S/S T V	•	-
		H S/S T V	÷	74
		H S/S T V		7
		H S/S T V	-	
		H S/S T V	-	**************************************
	7		-	-
		H S/S T V		-
	- 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H S/S T V		
14		H S/S T V	-	
15		H S/S T V	* (6)	
16		H S/S T V	-	*
			***************************************	D
Percent of Dominar	nt Species OBL, FACW, FAC 50/20 Re	Perce ule Applied? Yes No	ent of Dominant Species OBL	FACW
Remarks;	Hayfield 1	moved to 3!	!	
WETLAND DETER	RMINATION			
Hydrophytic Vegeta	ation Present? Yes or No	Hydric Soils Present?	Yes of No	
Wetland Hydrology	Present? Yes or No	Is this Sampling Point Within	a Wetland? Yes	or(No)
Hydrologic Connect	tivity to Off-site Wetlands? Yes or No	ls this Wetland Potentially Iso	lated? Yes	or No
Remarks:	Commence of the commence of th		Photo Reference Number:	
		*1 *		- V '

s.\edr office flies\forms\Data Form Routine Wetland Delineation.xls

DATA FORM .. ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinestion Manual

Investigator: Pippin/Stebbins	Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/10/07
Do normal circumstances exist on sile? State: NY Do normal circumstances exist on sile? Yes (i)	*	Town: Stayron Oyea
Do normal circumstances exist on site? Very Start Start Significantly disrumbed? Is the site significantly disrumbed? Very Start Start Start Significantly disrumbed? Very Start	Investigator: Pippin/Stebbins	County: Jefferson
Is the site significantly disturbed? Is the area a potential Problem Area? Yes for Transport/Flag ID: II - 10 Flot ID: II Weld Drainage Class: WD MWD (SF) PD VPD Subgroup: ACMC OMM Agual FS Depth Horizon Matrix color Meditic color/bundance Texture, Structure, Other CAMM B' 4		The second secon
Series and Phase: (KgA) Kings by STHY Ay Subgroup: ACO ON A QUAL FS Subgroup: ACO ON A QUAL FS Subgroup: ACO ON A QUAL FS Matrix color Matrix color Matrix color Mottle color/abundance Texture, Structure, Other Clay Bydric Soil Indicators: Histisols Histisols Histisols Histisols Histisols Mottle Colorable Many Clay Suffice Code Conganic Streaking in Standy Soils Gleyed or Low Chroma color Aquic Moissure Regime Landscape position: Concave Indicators: Field Observations Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Field Observations Primary Indicators: Primary	Is the site significantly disturbed? Yes No Widgerow Transecuffa	gD: <u>II-10</u>
Series and Phase: (KgA) Kings by STHY Ay Subgroup: ACO ON A QUAL FS Subgroup: ACO ON A QUAL FS Subgroup: ACO ON A QUAL FS Matrix color Matrix color Matrix color Mottle color/abundance Texture, Structure, Other Clay Bydric Soil Indicators: Histisols Histisols Histisols Histisols Histisols Mottle Colorable Many Clay Suffice Code Conganic Streaking in Standy Soils Gleyed or Low Chroma color Aquic Moissure Regime Landscape position: Concave Indicators: Field Observations Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Field Observations Primary Indicators: Primary	OU S	
Subgroup: ACON A QUAL FS Confirm Mapped Type: Es No Depth Horizon Matrix color Mottle color/abundance Texture, Cother CAM Bydric Soil Indicators: Histinols Concretions Histo Epipedon High Org. Content in Surface Layer of Sandy Soils Suffice Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concretions Approximate slope: Indicators: Primary Indicators: Secondary Indicators: No Codificed Root Channels in upper 12 inches. Water Marks Daft Lines Sectiment Deposits Drainage Patterns in Welland Confirm Mapped Type: Texture, Cther CAM Confirm Mapped Type: Ites Observations Listed on Local Hydric Soils List Listed on Local Hydric Soils Approximate Soils Approximate Approximate Soils Approximate Approxima	(Val) Vacation Cilla class	n i di mana cana cana anno
Depth Horizon Matrix color Mottle color/abundance Texture, Other O-8" A 10 yR 4/1 10 yR b/2, 10 yR 5/8 Many Bydric Soil Indicators: Hististols	10 to	
Hydric Soil Indicators: Hisris Epipedon Sufficio Cofor Organic Streaking in Sundy Soils Other (Explain in Remarks) Aquic Moistrue Regime Laudscape position: Concave Int Suram, Lake or Tide Gauge Aerial Photographs Depth to Free Water Suram, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Suramed in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Drainage Patterns in Wetland Suramarks Wetland in Remarks) Cherr (Explain in Remarks) Cherr (Explain in Remarks) Cherr (Explain in Remarks)	Subgroup: HONG OCHRAGUALTS	Confirm Mapped Type: (ex) No
Hydric Soil Indicators: Histisoils Epipedon Suffice Odor Generations High Org. Content in Surface Layer of Sandy Soils Suffice Odor Generations Geleyed or Low Chroma color Landscape positions: Concave Convex Sloping Approximate slope: Int More Stream, Lake or Tide Gauge Aerial Photographs Welland Hydrology Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Welland Hydrology Indicators: Primary Indicators: Secondary Indicators: Primary Indicators: Primary Indicators: Secondary Indicators: Primary Indicators: Secondary Indicators: Secondary Indicators: Primary Indicators: Secondary Indicators: Dorith Lines Social Survey Morphological Plant Adaptations Cither (Explain in Remarks) Cother (Explain in Remarks) Cother (Explain in Remarks) Cother (Explain in Remarks) Cother (Explain in Remarks)	Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
Hydric Soil Indicators: Histisols Histo Epipedon High Org. Content in Surface Layer of Sandy Soils Listed an Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Organic Streaking in Sandy Soils Reducing Conditions Gieyed or Low Chroma color Landscape position: Concave Concave Concave Indicators: Remarks: TOROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Free Water Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Secondary Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxiditized Root Channels in upper 12 inches Water-Stained leaves Local Story and Surface Inundated Water-Stained Laves Local Hydric Soils List Listed on Local Hydric Soils Aquic Moisure Regime Approximate slope: Soil Survey Soil Saturated on Local Hydric Soils Aquic Moisure Re	0-8" A 104R 4/1 none	clan.
Hydric Soil Indicators: Histisols Histo Epipedon High Org. Content in Surface Layer of Sandy Soils Listed an Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Organic Streaking in Sandy Soils Reducing Conditions Gieyed or Low Chroma color Landscape position: Concave Concave Concave Indicators: Remarks: TOROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Free Water Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Secondary Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxiditized Root Channels in upper 12 inches Water-Stained leaves Local Story and Surface Inundated Water-Stained Laves Local Hydric Soils List Listed on Local Hydric Soils Aquic Moisure Regime Approximate slope: Soil Survey Soil Saturated on Local Hydric Soils Aquic Moisure Re	8"1 R 1000 11 1000 11 1010 518 115011	clair
Histisc Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Suffice Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Concave	0 1 D 10916 4/1 10916 6/2, 10916 5/0 Many	gay
Histisc Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Suffice Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Concave		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water WA inches. Depth to Saturated Soils WA inches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Inundated Soil Saturated Root Channels in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Field Observations Ground Surface Inundated N/A inches. Soil Saturated. — MO 154 Depth to Free Water WA inches. Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		·
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Primary Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Field Observations Field Observations Ground Surface Inundated M/A inches. Dopth to Saturated. — MO i St Will inches. Soil Saturated. — MO i St Ocidized Root Channels. Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		
No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water NA inches. Depth to Saturated Soils NA inches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Ground Surface Inundated NA inches. Soil Saturated. — MO i St Octidized Rooi Saturated. — MO i St NO Soil Saturat	TOROLOGY	
Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water MA inches. Depth to Saturated Soils NA inches. Secondary Indicators (2 or more required) Coxidized Root Channels in upper 12 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Free Water Marks Secondary Indicators (2 or more required) Morphological Plant Adaptations Other (Explain in Remarks)		prince inundated N/A inches
Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Saturated Soils In inches. Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Agrial Photographs	,
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	,	
Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Cther (Explain in Remarks)		inches.
Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Oxidized Root Channels in upper 12 inches Water-Stained leaves Water-Stained leaves Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Cther (Explain in Remarks)		ne more required
Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Patterns in Wetland Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	The state of the s	the state of the s
Water MarksLocal Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland		
Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland		1 Survey
Drainage Patterns in Wetland	Drift Lines Morpholo	gical Plant Adaptations
D		plain in Remarks)
hummody terrain	Drainage Patterns in Wetland	
hummody thrain	Remarks:	
MAMINIONICY	humanary terrain	
	Manula Med	*

Project Number: Applicant:	05030 Horse Creek Windpowe	T.			Date:	10/10/07 II wet
1 Willow 2 Mead 3 Ned O. 4 dwast 5 Grey 6 7 Wetta 8 Wetta 9 Mess 10 Green 11 Swan	lowswelt Silv dogwood Casplemy dogwood ad grass and stalge s bulnich up milkwled	H H H H H H H H H H H H H H H H H H H	ratum: (eine line line line line line line line	v v v v v v v v v v v v v v v v v v v	Indicator: FACW/OBC FACW+ FACW FACW FACW/OBC FACW/OBC FACW/OBC OBL OBL	% Cover: 60 - 30 - 20 - 20 - 20 - 5 - 5 - 5
Percent of Dominar	at Species OBL, FACW, FAC	[DO % 50/20 Rule Applied?	(Yes) N		Percent of Dominant Species OB	L, FACW_100%
Remarks;						
	ation Present? Yes or No Present? Yes or No	Is this		Point W		or No

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse C	Creek Windpower		Date:	10/10/07
Investigator: Pippin/Stebbins			Town: County: State;	Clayton Jefferson NY
Do normal circumstances exist on site? Is the site significantly disturbed? Yes Is the area a potential Problem Area? Yes	shoulty hedgeron	Community: SUCCO	UPL	hrubland
Soils Series and Phase: (KgA) Kingski Subgroup: Acnc Ochragu Depth Horizon Matrix color 0-16" A 2.54 3/3	Mottle color/abundance NONC		Inpped Type: 🛭 🔏	MWD EPDPD VPD
Hydric Soil Indicators: Histisols Histic Epipedon Sufidic Odor Reducing Conditions Landscape position: Concave flat Remarks:		Listed as Pot	cal Hydric Soils List ential for Hydric Inc in in Remarks) ure Regime Approximate slop	lusions Only
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Field Obser Depth to Fre	Ground Surface Inundated_ Soil Saturated. e Waterinches.	inches	
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland	Secondary in	dicators (2 or more required) Oxidized Root Channels in a Water-Stained leaves Local Soil Survey Morphological Plant Adapta Other (Explain in Remarks)	upper 12 inches	
Remarks: NO WHM-d s:\edr office files\forms\Data Form Routine Wetl				

Project Number: 05030 Applicant: Horse Creek Windpower		Plot ID Number: T/UPL
VEGETATION Dominant Plant Species:	Stratum: (circle one)	Indicator: % Cover:
2 millon	H GOTV	FAC 90 - FACU/OBL 20
3 madowsweet 4 Towar honeysuchte	H SS T V	FACU+ 10 FACU 30
5 Strawbarry	OF S/S T V H S/S T V	FACU 5 -
7	H S/S T V	
8	H S/S T V	
9	H S/S T V	
10	H S/S T V	
11	H S/S T V	
12	H S/S T V	
13	H S/S T V	
14	H S/S T V	
15	H S/S T V	A-
16	H S/S T V	
Percent of Dominant Species OBL, FACW, FAC	plicd? (Yes) No	ent of Dominant Species OBL, FACW
Remarks: Spaw herb lay	er .	
WETLAND DETERMINATION		
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a	
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isola	
Remarks:		Photo Reference Number:

DATA FORM. ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Investigator: Pippin/Stebbins	Horse Creek Windpower	Date:
Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area?	() On 6100	portion of the property of the
Soils Series and Phase: (G/B) Galm Subgroup: Typic Eutro Depth Horizon Marrix color 0-14" A 104R 3/1 14" + B 104R 3/1	Mottle color/abundance None	Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: Yes No Texture, Structure, Other Silf Clay
Sufidic OdorOrganic St	Content in Surface Layer of Sandy Soils reaking in Sandy Soils Low Chroma color Convex Lindulating	Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate slope:
Recorded Data (Describe in Rema No Recorded Data Stream, Lake or Ti Acrial Photographs	Available NO Grou de Gauge NO Soil : Depth to Free Water	and Surface Inundated N/A inches. Saturated. — M015+
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns i	Secondary Indicator Oxid Wate Local Morp Other	s (2 or more required) ized Root Channels in upper 12 inches re-Stained leaves I Soil Survey bhological Plant Adaptations r (Explain in Remarks)
Remarks: Mummocky k		

10/11/07 05030 Project Number. Plot ID Number: · Horse Creek Windpower Applicant: VEGETATION Dominant Plant Species: Stratum: (circle ooe) Indicator: % Cover. OBL 1 tussock sedal 2 Marrow lead goldenrod 4 aren bulrush s blue vervain 6 Bidens Frondosa 7 Swamp milkured 8 Solt rush H H S/S T Percent of Dominant Species OBL, FACW_50%. Percent of Dominant Species OBL, FACW, FAC 50 % (Yes) No 50/20 Rule Applied? Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? (Yes or No Hydric Soils Present? Wetland Hydrology Present? Yes or No Is this Sampling Point Within a Wetland? Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Remarks: Photo Reference Number: low bowl in topography collects moisture no flow, no connectivity

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Applicant: Horse Creek Windpower Date: Project No: Clayton Totyn' Jefferson Investigator. Pippin/Stebbins County: NY Do normal circumstances exist on site? Community: Is the site significantly disturbed? Is the area a potential Problem Area? SOILS Galway silt loam (WD MOWD SPD PD VPD Drainage Class: Confirm Mapped Type: Matrix color Mottle color/abundance Texture, Structure, Other Depth Horizon 104R 3/3 none Hydric Soil Indicators: Listed on Local Hydric Soils List Histisols Concretions Listed as Potential for Hydric Inclusions Only High Org. Content in Surface Layer of Sandy Soils Histic Epipedon Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color _ Aquic Moisture Regime Landscape position: Approximate slope: undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated_ inches. No Recorded Data Available Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water Depth to Saturated Soils_ inches. Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators Oxidized Root Channels in upper 12 inches Inundated Water-Stained leaves Saturated in upper 12 inches, Water Marks Local Soil Survey **Drift Lines** Morphological Plant Adaptations Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks: no wellow a hydron ogu s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: Applicant:	05030 Horse Creek Windpower	Date: 10/11/07 Plot ID Number: ,7/ UPL
1 - Tynot 2 (Amale 3 harron 4 (b) v 5 6 7 8 9 10 11 12 13	ola gold.	Stratum: (circle case) Indicator:
Percent of Dominar	nt Species OBL, FACW, FAC_3397	Percent of Dominant Species OBL, FACW
*	\cap	Hydric Soils Present? Yes or No Is this Sampling Point Within a Wetland? Yes or No Is this Wetland Potentially Isolated? Yes or No Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Project No: 05030 Applicant: Horse Creek Windpower Date: Clayton Town: Investigator: Pippin/Stebbins Jefferson County: NY State Community: Do normal circumstances exist on site? Transect/Flag ID: Is the site significantly disturbed? Is the area a potential Problem Area? SOILS wd mwd spd fd)vpd Drainage Class: Confirm Mapped Type: Horizon Matrix color Mottle color/abundance Texture, Structure, Other Depth none Hydric Soil Indicators: Listed on Local Hydric Soils List Histisols Concretions Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color ____ Aquic Moisture Regime Landscape position: Approximate slope: concave сопуех undulating Remarks: HYDROLOGY Field Observations Recorded Data (Describe in Remarks) Ground Surface Inundated N/A inches. No Recorded Data Available Soil Saturated. - WiS+ Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water_N/A inches. Depth to Saturated Soils N/A Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Water-Stained leaves Saturated in upper 12 inches. Local Soil Survey Water Marks Morphological Plant Adaptations Drift Lines Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks: s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number:	05030		S				0/11/07
Applicant:	Horse Creek Windpower	19			- ,	Plot ID Number:	(3 we+
				_			
VEGETATION							
	inant Plant Species:	Stratu	m: (circle o	one)		Indicator:	% Cover:
1 namn	Heap cattail	(f) s	S/S T	·v		OBL	_60
2 OVELV	bulous	(B) S	/S T	v		OBL	40
3 Wetta	nd carel	_ (Â s	S T	v		FACW/OBL	20
4 50/t			s T	v		FACUL	10
	TVI -		/S T	v			
			/S T	v			
			/S T	v		1	
			/S T	v			
			/S T	v		-	, u e
			/S T	v		3 	-
			/S T	v		·	-
			/S T	v			
			/S T	v			0
	MCA: A			¥			
			S T	V		V	
			/S T	V		-	
16	<u> </u>	H S	/S T	v			
*******************************	100	9		*********			FACW 160 %
Percent of Domina	nt Species OBL, FACW, FAC 100		0		Percen	nt of Dominant Species OBL	, FACW_/UU /
	50/2	0 Rule Applied?	Yes No	É			
<u> </u>			**********		*****		
Remarks:							Mark Street
							a primarket in
		i.e.					
				10.1		70	
WETLAND DETER						Yes or No	
Hydrophytic Vegets	1-0	Hydric So			(1 0	
	Present? (Yes or No						or No
Remarks:	tivity to Off-site Wetlands? Yes or	No ls this We	tland Po	lentia	lly Isola	Photo Reference Number:	gr No
A 17						**************************************	3
		59.0					

Do normal circumstances exist on site?

DATA FORM

274 North Goodman Street

ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual Project No: 05030 Applicant: Horse Creek Windpower Date: Clayton Town: Jefferson Investigator. Pippin/Stebbins County: NY State:

Ye No

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Is the site significantly disturbed? Is the area a potential Problem Area?	Yes (No) Trai	Piot ID: K3 UPL
sons		
Series and Phase: (GP) Conngh	on Sith clay	Drainage Class: WD MWD SPI PD VPD
m 11-6 001-	2 16	
Subgroup: MOLLIC OCHI	a qual ts	Confirm Mapped Type: Yes No
Depth Horizon Matrix color	Mottle color/abundance	Texture, Structure, Other
i i i	sylven colon actions	Lorent of Branching Country
Hydric Soil Indicators:		
Histisols Concretions		Listed on Local Hydric Soils List
	itent in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
	ting in Sandy Soils	Other (Explain in Remarks)
Reducing Conditions Gleyed or Low	Chroma color	Aquic Moisture Regime
Landscape position: concave	convex	slopingApproximate slope:
flat	undulating	
TYDROLOGY		
Recorded Data (Describe in Remarks) Field Observati	ions
No Recorded Data Av		Ground Surface Inundatedinches.
Stream, Lake or Tide (GaugeS	Soil Saturated.
Aerial Photographs		
	Depth to Free W	faterinches.
	Depth to Saturat	ed Soilsinches.
Wetland Hydrology Indicators:		
Primary Indicators	Secondary Indic	ators (2 or more required)
Inundated		Oxidized Root Channels in upper 12 inches
Saturated in upper 12	inches.	Vater-Stained leaves
Water Marks		ocal Soil Survey
Drift Lines		forphological Plant Adaptations
Sediment Deposits		Other (Explain in Remarks)
Drainage Patterns in W	/etland	
Remarks:	1 1 1	
no withand	hydrolosy	*
- MANALLA MANALLA	1 10/001.)	*

r .			-			10/./-	
Project Number:	05030					Date: 10/1/10+	
Applicant:	Horse Creek Windpower	- 1				Plot ID Number: K3 UPL	
							===
VEGETATION							
Domin	nant Plant Species:	Str	ratum:	(circle r	one)	Indicator: % Cover:	
	and grass	H	S/S	T	· V	FACU 10000	e
2. Ned	doner	H) s/s	T	v	FAUL- 30%	E
		н	S/S	T	v		ANI
4		H	S/S	T	v		
		Ħ	S/S	T	v		
		н	S/S	r	V		
		н	S/S	T	v		
		н	S/S	T	v		
		н	S/S	т	v		
		н	S/S	T	v		
		н	S/S	T	v		
- P			S/S	т	v		,
		н		T	*		}
		н	S/S	T	V		
		н	S/S	T	V		
		н	S/S	T	V		a
16		H	S/S	Υ	V		
***************************************			********		************	2	
Percent of Dominar	nt Species OBL, FACW, FAC				P	Percent of Dominant Species OBL, FACW	
	50/20 Rule	: Applied?	Yes	s No			
			**********	*******	*********		
Remarks:	mowed to ~311	8					11 2
							*
2.	W-						
	a						
	***		7				
WETLAND DETER							
Hydrophytic Vegeta	2	Hydric				Yes or No	
	Present? Yes or No					/ithin a Wetland? Yes or No	
	tivity to Off-site Wetlands? Yes or No	Is this	Wetlan	nd Pot	entially	ly Isolated? Yes or No Photo Reference Number:	*********
Remarks;						Photo Reference Number.	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinestion Matual

Project No: 050	30 Applicant	Horse Creek Wind	power		Date:	10/11/07	2
A. e	2 4				Town:	Clayton	/m
Investigator. Pippin	/Stebbins	& w =			County:	Jefferson	
					State:	NY	
		7.7.		. 00	5<		*
Do normal circumstance	es exist on site?	Yes No		Community:			- :
Is the site significantly	disturbed?	Yes (No	Trac	nsect/Flag ID:			<u> </u>
Is the area a potential P	roblem Area?	Yes (No		Plot ID;	2 We	<i>t</i>	
							The state of the s
sons //	CA) Cha.	ant oil	141-11				
Series and Phase:	111) CIMI	mant sil	ryclay	Drainage	: Class:	WD MWD SED PD	VPD
Subgroup:	nc Ochi	agualfs	, ,	Confirm	Mapped Type:	Yo No	
Depth Horizon	Matrix color	Mottle	color/abundance	Texture, St	nucture, Other		
0-2" A	104R 311	1	ne.	1 cla	w		
		1112	ne .		0	1	
2-8" B	104R 5/1	10 YR 5/8	Some	Cla	4	¥.	
8"+ C	Gley 1 8/104	104R 4/1 10	41.6/8 Man	1 cla	М		
Hydric Soil Indicators		*	Trage 1)		77-0
Histisols	Concretion	ıs		Listed on L	ocal Hydric Soil	s List	4.
Histic Epipedon	High Org.	Content in Surface Laye	r of Sandy Soils	Listed as P	otential for Hydr	ic Inclusions Only	
Sufidic Odor	Organic St	reaking in Sandy Soils			lain in Remarks)		
Reducing Condition	ons X Gleyed or	Low Chroma color		Aquic Mois	sture Regime		
Landscape position:	rangere.		convex	sloping	Approximate	sinne:	
Landscape position.	concave		ulating	stoping	Approximate	. stope.	
Remarks:		, ,					•
			w = 11			0.9	
		**************************************	2.				(**)
TYDROLOGY							
	i Data (Describe in Rema	arks)	Field Observati	ions	,		
	No Recorded Data	The real		Ground Surface Inundated	N/A in	nches.	
	Stream, Lake or Ti	de Gauge	NO s	Soil Saturated MDi S	A '		
	Aerial Photograph	5		WA	8		/ 3
			Depth to Eree W				
			Depth to Saturat	ed Soils N/H inch	ts.	*	5000
Wetland Hydrology In	dicators:				3.		
Primary I	Indicators			ators (2 or more required)			
1	Inundated			oxidized Root Channels in	upper 12 inches	s r	
	Saturated in upper	12 inches.		Vater-Stained leaves			
989	Water Marks	6 (8)		ocal Soil Survey	and and a		- 3
a .	Drift Lines Sediment Deposits			Aorphological Plant Adap Other (Explain in Remarks			
	Drainage Patterns			ласі (Ехрині ін Ленаж	,		

Remarks:		The second secon	3		*	1	
			*2				72
*	7		· · · · · · · · · · · · · · · · · · ·	K 1, 0	*** (*	•	16 =

Project Number: Applicant:	05030 Horse Creek Windpower	Date: 10/11/07 Plot ID Number: 1.2 WP +	
1 will of 2 price of 3 open of 4 open of 4 open of 5 field of 6 most of 7 withan 8 open of 10 open of 11 open of 12 open of 13 open of 14 open of 14 open of 15 open	on sweet dogwood hosptail s nd conex	Stratum: (circle coc) Indicator:	30
Percent of Domina	nt Species OBL, FACW, FAC 67% 50/20 Rule	Percent of Dominant Species OBL, FACW_67-93 Applied? (Yes No	
Remarks:	MINATION		
Hydrophytic Vegeta Wetland Hydrology	12	Hydric Soils Present? Is this Sampling Point Within a Wetland? Is this Wetland Potentially Isolated? Yes or No Yes or No	
Remarks:		Photo Reference Number:	

2

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator: Pippin/Stebbins Jefferson County NY State: Do normal circumstances exist on site? Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS WD MWD FED PD VPD Drainage Class: Confirm Mapped Type: · Mottle color/abundance Matrix color Texture, Structure, Other Depth none Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Approximate slope: convex undulating Remarks: Soil day crumbby HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated Aerial Photographs Depth to Free Water Depth to Saturated Soils_ inches. Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: No waterd Englishory

s:\edr office files\forms\Data Form Routine Wetland Determination,xls

Project Number: 05030 Applicant: Horse Creek Windpower		Plot ID Number: 10/11	
VEGETATION	- Al-		
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover.
1 5/0-15 19142	6	NI_	10 -
2 A. 0.5Pen		FACU	10 -
2 11 0500	H S/S T V	17100	- 10
4 grey dogwood		FAC	70 -
5 mendorsweet		FACW+	30 -
		NI	10
6 amount downy		NL_	10
7	H S/S T V	FACU	20 -
8 Ville Shaw berry	(H) S/S T V	TACU	10 -
9 Jamon	(H) S/S T V	TACH	10 -
10 old field cinquifoil		FACU-	10
11	H S/S T V		
12			
13		 	*
14			
15	H S/S T V	-	
16	H S/S T V		
Percent of Dominant Species OBL, FACW, FAC_	29% Perc 50/20 Rule Applied? Yes No	cent of Dominant Species OBL, FA	ACW_14_%
Remarks:			
			*_
VETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes of No	Hydric Soils Present?	Yes or No	- A
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within	a Wetland? Yes on I	No'
Hydrologic Connectivity to Off-site Wetlands?	Yes or No Is this Wetland Potentially Isc	995539554664425958655544444448654644444644444 47777774	No
Remarks:		Photo Reference Number:	

DATA FORM .

274 North Goodman Street ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual 05030 Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator: Pippin/Stebbins/Tremboth Jefferson County: NY State: Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS WD MWD SPD PD VPD Confirm Mapped Type: Texture, Structure, Other 104R 5 none Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave Approximate slope: undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated N/A No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Water NA inches. Depth to Saturated Soils N/A inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wedland

Remarks:

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/16/07 Plot ID Number: L 41 wet
Dominant Plant Species: 1 Wf Willow 2 Meador Swert 3 grey dogwood. 4 Ned Oster dogwood. 5 6 Calico aster 7 Narrow baved gold. 8 Moss 9 field horse fail 10 11 12 13 14	Stratum: (circle one) H SP T V F S/S T V F S/S T V H S/S T V	Indicator: % Cover: FACW/OBC 50 FACW+ 75 FAC 30 FACW+ 5 FACW- 5 FAC 5 FAC 5 FAC 10
Percent of Dominant Species OBL, FACW, FAC 100% 50/20 Rule Ap Remarks: Sparse hub larger	plied? (Ye) No	y Thick
WETLAND DETERMINATION Hydrophytic Vegetation Present? Ses or No Wetland Hydrology Present? Ses or No Hydrologic Connectivity to Off-site Wetlands? Ses or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola	A

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek W	'indpower	Date:	10/16/07
	18 A	Town:	Clayton
Investigator: Pippin/Stebbins/TYEMBOTA	1	County:	Jefferson
1		State:	NY
Do normal circumstances exist on site? Yes No		unity: SUCCESSIDM	al shrista
	Commi	7	as sir use
Is the site significantly disturbed? Yes No.	Transect/Fla	ng ID:	
Is the area a potential Problem Area? Yes No	Pic	ot ID: 241	UPL
DILS			
Series and Phase: (CIA) Chaumant.	silty day	Drainage Class:	WD MWD EPD PD VPD
Subgroup: Acric Ochraque	alfs.	Confirm Mapped Type:	(Yes) No
Depth Horizon Matrix color Mo	ottle color/abundance	Texture, Structure, Other	
0-8" A 104R 5/3 N	one	silty day	
0 10 0 104 14		10	
8-17 P INK 213	none	class	
12"+ rejects awarer			
Hydric Soil Indicators: Histisols Concretions		Listed on Local Hydric Soils	Liet
Histic Epipedon High Org. Content in Surface I	Laver of Sandy Soils	Listed on Local Hydric Soils	
Sufidic Odor Organic Streaking in Sandy So		Other (Explain in Remarks)	
Reducing ConditionsGleyed or Low Chroma color	*	Aquic Moisture Regime	
Landscape position: concave		opingApproximate	slope:
flat	undulating		
12-11-12-11-11-11-11-11-11-11-11-11-11-1	\$20.50 \$5.600.00 pp. 10		\$95\$\$1486*\$0150*\$1575*\$1576*\$1656*********************************
Remarks:			
	8		
DROLOGY	1 8		
Recorded Data (Describe in Remarks)	Field Observations		
No Recorded Data Available			ches.
Stream, Lake or Tide Gauge	Soil Satur	rated.	
Aerial Photographs	Depth to Free Water	inches.	
			9
	Depth to Saturated Soils	inches.	
Wetland Hydrology Indicators:			
Primary Indicators	Secondary Indicators (2 o		
Inundated	The state of the s	Root Channels in upper 12 inches	
Saturated in upper 12 inches.	The state of the s	ained leaves	
Water Marks	Local Soil		
Drift Lines		ogical Plant Adaptations	
Sediment Deposits	Other (Ex	eplain in Remarks)	
Drainage Patterns in Wetland			
	"		
N			
Remarks:			***************************************
	lagy		
Remarks: No wetland hydro	logy		

Project Number: 05030 Applicant: Horse Creek Windpower		Date:/	1/16/07 -4/ UPL
Dominant Plant Species: 1 any dogwood 2 meador sweet 3 anomood downy 4 5 finang 6 Q. Anne's Lace 7 (anada gold. 8 namow leaved Gold 9 weld Strawbery 10 yarrow 11 Old Field Cinquefoil 12 13 14 15 16	Stratum: (circle coc) H S/S T V H S/S T V H S/S T V H S/S T V H S/S T V	Indicator: FAC FACU FACU FACU FACU FACU FACU FACU	%Cover. 50 - 40 - 10 - 50 - 10 - 30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
Percent of Dominant Species OBL, FACW, FAC 60 76 50/20 Rule /		nt of Dominant Species OBL,	facw_209,
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Isol		

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delimention Manual

	O Applicant: Ho	rse Creek Windpower		Date:	10/16/07
		5		Town:	Clayton
Investigator. Pippin/	Stebbins/tremb	oth		County:	Jefferson
	11-			State:	NY
	***************************************			***************************************	
Do normal circumstance	s exist on site?	No A	Community: SPale	ac me	adow
Is the site significantly d	ionschad?	Ag Land	ransect/Flag ID: M	1-1	5
		A	n/	1 w	01-
Is the area a potential Pro	oblem Area?	res (No)	Plot ID:	1 100	·T
ons	- × 11				
Series and Phase: (C	IA) (haun	nonts: Ity do	W Drainage	Class:	WD MWD SPD PD VPD
Subgroup: Af	nc ochra	Gnalled	/	Mapped Type:	(Ye) No
Sungroup	11/2 000010	Juni 13			119 .10
Depth Horizon	Matrix color	Mottle color/abundance	Texture, Str	ructure, Other	-= 1
0-3" A	104R 4/3	none	Silt	nclay	
2-911 B	1000 010	non l	SIL	- cla	
2 1 2	104R 3/2	nonl	1 3111	y cia)
9-16 C	104R 2/1	none	cla	is.	=
	1.00	7101.0	1 0,11	0	
Hydric Soil Indicators: Histisols	Concretions		Listed on L	ocal Hydric Soils	T ict
Histic Epipedon		ent in Surface Layer of Sandy Soils			c Inclusions Only
					c metasions omy
Sufidic Odor		ng in Sandy Soils		lain in Remarks)	
Reducing Condition	sGleyed or Low (Laroma color	Aduic Mois	ture Regime	
No. of the second					
		/			.5 11
Landscape position:	concave	convex	sloping	Approximate	slope:
Landscape position:	concave	convex		Approximate	slope:
Landscape position:				Approximate	slope:
Landscape position:				Approximate	slope:
				Approximate	slope:
				Approximate	slope:
				Approximate	siope:
				Approximate	slope:
Remarks:				Approximate	slope:
Rémarks:		undulating	sloping		siope:
Remarks:	flat	undulating Field Observ	sloping		slope:
Remarks:	flat //	Field Observable	sloping		
Remarks:	Data (Describe in Remarks) No Recorded Data Avai	Field Observable	sloping		
Remarks:	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Go	Field Observable	sloping		
Remarks:	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Go	undulating Field Observing lable NO NO	rations Ground Surface Inundated Soil Saturated. Waterinches.	N/A in	
Remarks:	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs	undulating Field Observing JO Depth to Free	rations Ground Surface Inundated Soil Saturated. Waterinches.	N/A in	
Remarks: YDROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs	lable NO Depth to Sati	sloping rations Ground Surface Inundated_ Soil Saturated. Waterinches. rated Soilsinche	N/A in	ches.
PROLOGY Recorded	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs	lable NO Depth to Sati	sloping rations Ground Surface Inundated_ Soil Saturated. Waterinches. rated Soilsinche	N/A in	ches.
Remarks: YDROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated	lable lable Depth to Free Depth to Sati	sloping rations Ground Surface Inundated Soil Saturated. Waterinches. grated Soilsinches.	N/A in	ches.
Remarks: YDROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators:	lable lable Depth to Free Depth to Sati	sloping	N/A in	ches.
Remarks: YDROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated Saturated in upper 12 in	lable lable Depth to Free Depth to Sati	rations Ground Surface Inundated Soil Saturated. Waterinches. rated Soilsinche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves	N/A in	ches.
Remarks: YDROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated Saturated in upper 12 in Water Marks Drift Lines	lable lable Depth to Free Depth to Sati	rations Ground Surface Inundated Soil Saturated. Water inches. rated Soils inche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves Local Soil Survey Morphological Plant Adapt	N/A in	ches.
Remarks: OROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators inundated Saturated in upper 12 in Water Marks	lable auge Depth to Free Depth to San Secondary In	rations Ground Surface Inundated Soil Saturated. Water inches. rated Soils inche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves Local Soil Survey	N/A in	ches.
Remarks: ZDROLOGY Recorded Wetland Hydrology Indi	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated Saturated in upper 12 in Water Marks Drift Lines Sediment Deposits	lable auge Depth to Free Depth to San Secondary In	rations Ground Surface Inundated Soil Saturated. Water inches. rated Soils inche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves Local Soil Survey Morphological Plant Adapt	N/A in	ches.
Remarks: OROLOGY Recorded Wetland Hydrology Ind	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated Saturated in upper 12 in Water Marks Drift Lines Sediment Deposits	lable auge Depth to Free Depth to San Secondary In	rations Ground Surface Inundated Soil Saturated. Water inches. rated Soils inche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves Local Soil Survey Morphological Plant Adapt	N/A in	ches.
Remarks: CDROLOGY Recorded Primary In	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated Saturated in upper 12 in Water Marks Drift Lines Sediment Deposits	lable auge Depth to Free Depth to San Secondary In	rations Ground Surface Inundated Soil Saturated. Water inches. rated Soils inche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves Local Soil Survey Morphological Plant Adapt	N/A in	ches.
DROLOGY Recorded Primary In	Data (Describe in Remarks) No Recorded Data Avai Stream, Lake or Tide Ga Aerial Photographs icators: dicators Inundated Saturated in upper 12 in Water Marks Drift Lines Sediment Deposits	lable auge Depth to Free Depth to San Secondary In	rations Ground Surface Inundated Soil Saturated. Water inches. rated Soils inche dicators (2 or more required) Oxidized Root Channels in Water-Stained leaves Local Soil Survey Morphological Plant Adapt	N/A in	ches.

Project Number: Applicant:	05030 Horse Creek Windpower				Date: Plot ID Number:	10/16/07 mi wet	• 1
1 SO F F 2 POX 3 WOOL 4 CALIC 5 NAMO 6 7 8 9 10 11 12 13 14	inant Plant Species: LAUS G SUBJECT SWEAF GOLD	н н н н н н н н н н н н н н н н н н н	ratum: (circle) S/S T	v v v	Indicator: FACW + OBL FACW + FACW - FAC	% Cover: 50 40 20 20 20	
Percent of Dominar Remarks:	SWamp Milkwed Green bullowsh RMINATION ation Present? Feeder No	tule Applied? < 5 7 Hydric	Yes) N	Pe o	ercent of Dominant Species		
	Present? Yes or No	2	Sampling 1		Isolated? Photo Reference Num	Yes or No Yes or No her:	

. . . .

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Investigator. Pippin/Stebbins/Tremlas	Creek Windpower	Town: Clayton County: Jefferson State: NY
Do normal circumstances exist on site? Is the site significantly disturbed? Yes Is the area a potential Problem Area? Yes	NO ASLOW TransecvFlag ID:	: M
OILS Series and Phase: (CIA) Chaumon	+ citte clan	Drainage Class: WD MWD SPD PD VPD
Subgroup: Alnic Ochragu	ialfs	Confirm Mapped Type: Yes No
Depth Horizon Matrix color 0-1611 A 104R 4/3	Mottle color/abundance	Texture, Structure, Other Stify day
		-
Remarks: Soil dishurbed	convex sloping undulating sloping	Approximate slope:
POROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Soil Saturated. Depth to Free Water	inches.
Wetland Hydrology Indicators:	Depth to Saturated Soils Secondary Indicators (2 or mo	inches. ore required) t Channels in upper 12 inches
Primary Indicators Inumdated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	Water-Stained Local Soil Surv	rvey Il Plant Adaptations

Project Number: 05030 Applicant: Horse Ct	eek Windpower		- 27		Date: Plot ID Number:	in.	6/07 UPL
MECETATION					1		
3 Upland G1 4 CbN velet 5 6 7 8 9 10 11 12 13	1000	н н н н н н н н	S/S T	one) V V V V V V V V V V V V V	Indicator: FACU VIL FACY VIL		% Cover. 90 10 30 16
16		н	S/S T	v v			
Percent of Dominant Species O Remarks: Ag	50/20 Rule Appli Land - Han	*******		3			<u>, </u>
WETLAND DETERMINATION Hydrophytic Vegetation Present Wetland Hydrology Present? Hydrologic Connectivity to Off- Remarks:	Yes or No	Is this S			Yes or No a Wetland? Photo Reference No	Yes or No Yes or No umber:	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual 05030 Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator: Pippin/Stebbins/Tremban Jefferson County: State: Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area? SOILS Series and Phase: (CIA) Chaumont & Hy day
Subgroup: Anc Ochraqual & WD MWD SPDPD VPD Drainage Class: Confirm Mapped Type: Monle color/abundance Matrix color Depth 104R 3/2 none Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: sloping___ concave convex Approximate slope: Remarks: HYDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water N/4 inches Depth to Saturated Soils N/A inches. Wetland Hydrology Indicators: Secondary Indicators (2 or more required) **Primary Indicators** Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Morphological Plant Adaptations Drift Lines Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks:

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: Applicant:	05030 Horse Creek Windpower	UL.				Dute: 10/16/87 Plot ID Number: N Z Wet	
1 20ft 2 Grala 3 Namo 4 Biden 5 Calica 6 Fox 8 9 10 11 12 13 14	nbul rush n leas gold s Frondosa s aster	St H H H H H H H H H H H H H H H H H H H	S/S S/S S/S S/S S/S S/S S/S	T T T T T T T T T T T T T T T T T T T	v v v v v v v v v v v v v v v v v v v	OBL 30 - FAC 25 FACW 10	
Percent of Dominant Species OBL, FACW, FAC 100% Percent of Dominant Species OBL, FACW 100% 50/20 Rule Applied? (ve) No							
Remarks: Swamp milkweed < 5% wool grass							
Wetland Hydrology	AMINATION ation Present? Yes or No Present? Yes or No tivity to Off-site Wetlands? Yes or No	Is this		ng Po	int W	Within a Wetland? Wes or No ially Isolated? Yes or No Photo Reference Number:	

DATA FORM

274 North Goodman Street Rochester, New York 14607

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower Investigator: Pippin/Stebbins / TMba-H	Date: Town: County:	10/16/07 Clayton Jefferson
Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area? Yes No Active Community: Yes No Active Transect/Flag ID: Plot ID:	Hay hield N NZ UPC	NY
	Drainage Class: Confirm Mapped Type: Texture, Structure, Other	wd mwdspd pd vpd
Bydric Soil Indicators:		
Histic Epipedon High Org. Content in Surface Layer of Sandy Soils L Suffidic Odor Organic Streaking in Sandy Soils C	Listed on Local Hydric Soils Listed as Potential for Hydric Other (Explain in Remarks) Aquic Moisture RegimeApproximate s	Inclusions Only
HYDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available No Recorded Data Available Stream, Lake or Tide Gauge Soil Saturated	Inundated inc	hes.
Aerial Photographs Depth to Free Water Depth to Saturated Soils	inches.	
Saturated in upper 12 inches. Water-Stained le Water Marks Local Soil Surve	Channels in upper 12 inches eaves Ey Plant Adaptations	
Remarks: No welflawel hydrology s:\edr office files\forms\Data Form Routine Wetland Determination.xls	*	641 597 669 59 56 67 59 50 61 50 - 10 - 10 - 10 - 10 - 10 - 10 - 10

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/16/67 Plot ID Number: N2 UPC
Dominant Plant Species: 1	Stratum: (circle ooc) B S/S T V B S/S T V B S/S T V H S/S T V	Indicator: % Cover: 85 NC 60 FACM 30
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule Remarks: A CAUL AG - Hary f WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No	Applied? (Yes)No	

Observer: Name: Phpin/tvemboth/Stubbiro Weather: Far	Project Information: Name: 1707SCreek Number: 05030 Date: 10/16/07
Stream Name: Unnamed Channel	
Stream Location (nearest road, structure, etc.): hetween twomes 26 + 27 : NE Adjacent Community: Dld Field'	of Rte 12: Kown Forkey must
Adjacent Community: DIOI FIEIG	- property
Stream Gradient - gentle	
Bank Width: 15-18	
Stream Width: 3-51	
Water Depth: No flow	
Substrate: - Bed Rock Boulder Cobble Gravel Sand	
- Silt	
Instream Cover: - Undercut bank	
Flow: - Permanent	
Photo # 1C 0 Flag #'s C 0 -1	
Additional Comments: SOI/S = (KgA) KINGSbi	mysiltyclaz, SPD, Acric
Clayton Twishp, Jeflerson Chy	- Ochragualts
· · · · · · · · · · · · · · · · · · ·	

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

05030 Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Trembath Investigator. Pippin/Stebbins County: Jefferson NY State: Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area? SOILS WD MWD SED PD VPD Drainage Class: Confirm Mapped Type: Mottle color/abundance Matrix color Texture, Structure, Other Some Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Concretions Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: sloping concave Approximate slope: undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Ground Surface Inundated N/A No Recorded Data Available Soil Saturated - MIST Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Water_N/A Depth to Saturated Soils N/A Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches Inundated Water-Stained leaves Saturated in upper 12 inches. Water Marks Local Soil Survey Morphological Plant Adaptations Drift Lines Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks: s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: Applicant:	05030 Horse Creek Windpow	er .	**			Date: 10/16/07 Plot ID Number: 13 WC+
1 green 2 Soft 3 WCHO 4 Cae 1 5 Fox S 6 7 8 9 10 11 12 13 14	nant Plant Species: -bul nus h - nus h and covere to osh	H H H H H H H H H H H H H H H H H H H	S/S	T T	>>) V V V V V V V V V V V V V V V V V V	Indicator: % Cover: DBL 5D FACW+ 50 FACW/OBL 3D FACW- 75 OBL 20
Percent of Dominat	nt Species OBL, FACW, FAC	: 100% 50/20 Rule Applied?	0	No		Percent of Dominant Species OBL, FACW
WETLAND DETER Hydrophytic Vegeta Wetland Hydrology Hydrologic Connect Remarks:	ution Present? (You or No	Is this S		g Po	int V	Yel or No Within a Wetland? Yel or No lly Isolated? Photo Reference Number:

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual Applicant: Horse Creek Windpower 05030 Project No: Date: Clayton Town: Investigator Pippin/Stebbing Trembath Jefferson County: NY State: (Yes No Community: Do normal circumstances exist on site? Transect/Flag ID: Is the site significantly disturbed? Plot ID: Is the area a potential Problem Area? SOILS WD MWD/SPD PD VPD Drainage Class: Confirm Mapped Type: Ges No Mottle color/abundance Horizon Matrix color Texture, Spructure, Other none Hydric Soil Indicators: Listed on Local Hydric Soils List Histisols Concretions Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave COULCX sloping_ Approximate slope: undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated_ Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water Depth to Saturated Soils_ inches. Wetland Hydrology Indicators: Secondary Indicators (2 or more required) **Primary Indicators** Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey **Drift Lines** Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: no wettard hydrology

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

VEGETATION Dominant Plant Species: Stratum: (circle cow) Indicator: % Cover: 1	,	10/16/07 P3 UPL	Date: Plot ID Number:		- 2		3		Project Number: Applicant:
\sim		56 75 10 35	FACU	v v v v v v v v v v v v v v v v v v v	S T S T S T S T S T S T S T S T S T S T	SAN	н н н н н н н н н	Dominant Plant Species: 1 fimbling 2 Calico aster 3 Common Wilkwheed 4 R knnes Lace 5 Canada Gold 6 7 8 9 10 11 12 13 14	Domi 1 findt 2 calic 3 com 4 Q fn 5 can 6 7 8 9 10 11 12 13 14 15
		DBL, FACW_50%	Percent of Dominant Species) No	(¥	Applied?	50/20 Rule	
Remarks:				1				emarks:	Remarks:
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within a Wetland? Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolated? Yes or No Remarks: Photo Reference Number:		Yes or No	thin a Wetland?	oint Wi	pling P	Sam	Is this	ydrophytic Vegetation Present? Yes or No Vetland Hydrology Present? Yes or No ydrologic Connectivity to Off-site Wetlands? Yes or No	Hydrophytic Vegete Wetland Hydrology Hydrologic Connec

Observer: Name: Piffin/Trembarn/Stylling	Project Information: Name: Hosecreck
Weather	Number: 05030 Date: 10/16/07
Stream Name: Unnamed (1C-Q)	
Stream Location (nearest road, structure, etc.): TWEIN 54 WONESPACE NOT DVENSH Adjacent Community: 5hrv.by heast now m ASL	of Rd: Patricia Patchen LIVIII and Trust Proper
Stream Gradient - gentle	•
Bank Width: 25-30	
Stream Width: 10-121	
Water Depth: NO flow - ordinam high water i	nark 6-12"
Substrate: - Bed Rock Boulder Cobble Gravel Sand Silt	
- Clay	
Instream Cover: - Undercut bank - Overhanging vegetation - Logs/woody debris - Deep pools - Other	
Flow: - Permanent	
Photo # C Q -	
Additional Comments: CUIVER & FOOD Crossing	
Soils = (6v) Guffin Clay, PD/VPD,	Mollic Haplaquept
Clayton Twishp, Jefferson Cty	

Observer:	Project	Informati	on: reek
Name: Stobinstrumbath Pippin Weather: ONICOSH Light ROLL	Number:	05030	Date: 10/17/07
Stream Name: Unromed - IC R			
Stream Location (nearest road, structure, etc.): 1901 Wilhe 10. Alt W of RK 12. E of Defawill	'Rd; Ha	as/Games	property
Adjacent Community: Sprul Plantaton	***		<u>) '</u>
Stream Gradient - gentle - moderate - steep			
Bank Width: 20-25'at wdest, 10-15'aug Stream Width: 10-121 at wdest, 5-8' aug			
Water Depth: ho flow			
Substrate: - Bed Rock			
- Silt - Clay			
nstream Cover: - Undercut bank - Overhanging vegetation - Logs/woody debris - Deep pools			
- Other			
Flow: - Permanent			
Photo # IC R			
Additional Comments: Dift like5			
Soils = (GV) Guffin clay, PD/VPL	o, mo	llic Haj	plaguept
Clayton twishp, Jefferson Cty			t: 11

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

NE WEILAND DEI ERMINATI
1987 COE Wetlands Delineation Manual

	Date: 10/14/07
	Town: Clayton .
Investigator: Pippin/Stebbins / Wewbath	County: Jefferson
	State: NY
Do normal circumstances exist on site? Is the site significantly disturbed? Yes No	Community: PEM w/associated channel Transcot/Flag ID: R 1-33
	001.06
Is the area a potential Problem Area? Yes No	Plot ID: R9 WEt
ON C	
GULS COLL	
Series and Phase: () OU. HAN CAUS	Drainage Class: WD MWD SPD PD VPD
Subgroup: 11101116 Hapla Quepts	Confirm Mapped Type: Yes No
Depth Horizon Matrix color Mottle color/abunda	
0-16" A 104R3/2 none	Silty clay
Hydric Soll Indicators:	
Histisols Concretions	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer of Sandy S	
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing Conditions X Gleyed or Low Chroma color	Aquic Moisture Regime
Landscape position: concave Convex	sloping Approximate slope:
	slopingApproximate slope:
flat undulating	Stoping Approximate stope
	StopragApproximate stope
flat undulating	
flat undulating	
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	Observations Ground Surface Inundatedinches.
Remarks: VDROLOCY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	l Observations
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Observations Ground Surface Inundatedinches. Soil Saturated.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept	I Observations Ground Surface Inundatedinches. Soil Saturated. h to Free Waterinches.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept	Observations Ground Surface Inundatedinches. Soil Saturated.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators:	Observations Ground Surface Inundatedinches. Soil Saturated. h to Free Waterinches. h to Saturated Soilsinches.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary Indicators Seco	Observations Ground Surface Inundatedinches. Soil Saturated. h to Free Waterinches. h to Saturated Soilsinches.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary Indicators Inundated	Observations Ground Surface Inundatedinches. Soil Saturated. th to Free Waterinches. th to Saturated Soilsinches. Indary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary indicators Inundated Saturated in upper 12 inches.	Observations Ground Surface Inundatedinches. Soil Saturated. th to Free Waterinches. th to Saturated Soilsinches. Indary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks	Observations Ground Surface Inundatedinches. Soil Saturated. th to Free Waterinches. th to Saturated Soilsinches. Indary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey
Remarks: PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Dept Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Observations
Remarks: PUROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Observations Ground Surface Inundatedinches. Soil Saturated. th to Free Waterinches. th to Saturated Soilsinches. Indary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Observations
Remarks: PUROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Dept Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Observations
Remarks: Primary Indicators: Primary In	Observations
Remarks: Porology	Observations

Project Number: 05030		Date: 10/17/07
Applicant: Horse Creek Windpower		Plot ID Number: R9 WC+
Applicant. 2010 of the Windpower		
VEGETATION		
Dominant Plant Species:	Stratum: (circle one)	Indicator: % Cover:
blueverain	H S/S T V	FACW+ 25
2 Green bulnish	H S/S T V	OBL 25
3 Elecampone	B S/S T V	FACW 60 -
4 ratico aster	Ø s∕s T V	FACW- 40 -
5 Willow-terb	H S/S T V	081 20
6 NE aster	A S/S T V	FACW- 10
1-fox sedge	H) S/S T V	OBL ZO
* Stage	H S/S T V	
9	H S/S T V	
	H S/S T V	
10	H S/S T V	•
11	H S/S T V	
12	eter varieti sies dans	
13	H S/S T V	
14	H S/S T V	
15	H S/S T V	-
16	H S/S T V	
1004	***************************************	100%
Percent of Dominant Species OBL, FACW, FAC 100 90		ent of Dominant Species OBL, FACW
50/20 Rule	Applied? (Yes) No	
Remarks:		(a 2 = 1
	J-21	
WETLAND DETERMINATION		
Hydrophytic Vegetation Present? (Yes or No	Hydric Soils Present?	(Yel or No
Wetland Hydrology Present? Nessor No	Is this Sampling Point Within	
Hydrologic Connectivity to Off-site Wetlands? (Yes or No	Is this Wetland Potentially Isc	
Remarks;		Photo Reference Number:
	1	

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

. ...

DATA FORM 274 North Goodman Street ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual 05030 Applicant: Horse Creek Windpower Project No: Date: Clayton Town: trembarn Investigator, Pippin/Stebbins Jefferson County: NY Do normal circumstances exist on site? Transect/Flag ID: Is the site significantly disturbed? Is the area a potential Problem Area? SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: (Yes)No Subgroup: Matrix color Mottle color/abundance Texture, Structure, Other Depth none 10YR 3/2 Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Concretions Histic Epipedon Listed as Potential for Hydric Inclusions Only High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions _Gleyed or Low Chroma color ____ Aquic Moisture Regime Landscape position; Approximate slope: concave convex sloping undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water_ Depth to Saturated Soils_ Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required)

Inundated

Saturated in upper 12 inches.

Water Marks

Drift Lines

Sediment Deposits

Drainage Patterns in Wetland

Oxidized Root Channels in upper 12 inches

Water-Stained leaves

Local Soil Survey

Morphological Plant Adaptations

Other (Explain in Remarks)

Remarks:

no wetland hydrology

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower	_	Date: 10/17/07 Plot ID Number: R9 11PL					
VEGETATION Dominant Plant Species; 1 ONLY ADCWOOD 2 DUCK hown 3 4 5 Old field Conquefiel 6 Wind Strawbern 7 8 9 10 11 12 13	H S/S T V	Indicator: %Cover: FAC 90 UPL 60 FACU- 5 FACU- 5					
15 16	H S/S T V						
Percent of Dominant Species OBL, FACW, FAC D 50/20 Rule Applied? (Yes) No Remarks: Sparse harb layer							
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isolat						

s.tedr office filestformstData Form Routine Wetland Delineation.xis

1

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Wi	ndpower	Date:	10/17/07
	# *	Town:	Clayton
Investigator: Pippin/Stebbins/TVPMb4H	ىم.	County:	Jefferson
	of Con S'	State;	NY
Do normal circumstances exist on site?	~ Port which Community:	PFO W/associate	d farm pond + chamil
to the	AVA LIST.	51-21	
	Transect/Flag ID:	511- 110	/_
Is the area a potential Problem Area? Yes No PFO	less short Plot ID:	5/6 Wes	
SOILS (C)			4
Series and Phase: ((p) (oung ton S)	1/2 clan	Drainage Class:	WD MWD SPD PD VPD
Subgroup: MOIIIC Ochaqualt		Confirm Mapped Type:	(YE) No
Depth Horizon Matrix color Mot	le color/abundance	Texture, Structure, Other	
0-8" A 10123/1 NOI	re	loany c	lan
2 111 B 1 1 1		110	
D-19 P 104R3/1 104R6/8,10	IR 5/8,104n 8/1-Many	yays	
14'+ C 104R 7/2 104R 5/8	2. Manu	clan	
	Troving :	any	***
Hydric Soil Indicators: Histisols Concretions		Listed on Local Hydric Soil	a Ties
		Listed on Local Flyding Soli Listed as Potential for Hydr	
Sufidic OdorOrganic Streaking in Sandy Soi		Other (Explain in Remarks)	
Reducing Conditions		Aquic Moisture Regime	
	A THE RESERVE		
Landscape position: concave	convex sloping	Approximat	e slope:
пат руши	Idulating		
Remarks:	_/(€		
Actual Ast			N
the state of the s			
HYDROLOGY			
Recorded Data (Describe in Remarks)	Field Observations Of Ground Surface	N/A.	
No Recorded Data Available Stream, Lake or Tide Gauge	✓ Ground Surface ✓ Q ≤ Soil Saturated.	: Inundated /V/A i	nches.
Aerial Photographs	Y S Sou Salutated.		
	Depth to Free Water NA	inches.	
	Depth to Saturated Soils	inches.	
Wetland Hydrology Indicators:		•••	
Primary Indicators	Secondary Indicators (2 or mor	re required)	
Inundated		Channels in upper 12 inche	5
Saturated in upper 12 inches.	Water-Stained I		8 =
Water Marks	Local Soil Surv		
Drift Lines		Plant Adaptations	7A - 60
Sediment Deposits	Other (Explain	in Remarks)	
Drainage Patterns in Wetland			*/a/i
Remarks:			
15 cm (section \$1.7 800).	- 1	`)	
1	*		
	,***·		*
s:\edr office files\forms\Data Form Routine Wetland De	ermination.xls		- % 8 p

Project Number:	05030					1	Date;	10/1	7/07	
Applicant	Horse Creek Windpow	er					Plot ID Number	: <u>C</u>	wet.	*
VEGETATION Dom 1 frings 2 bisse 3 Gillin 4 wette 5 furth 6 tusse 7 se d 8 9 10 greer 11 Am. 12 13 14	inant Plant Species: ed selge flag battvish and carea (o whead ext selge Osier	nu)	田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	**************************************	v v v v v v v v v v v v v v v v v v v		Indicator: DBL DBL OBL OBL ACW/OX DBL ACW-OX DBL ACW-	3L	% Cover: 30 20 10 5 20 10	
Percent of Domina	ant Species OBL, FACW, FAC	50/20 Rule App	ilied?	()2. 1		Percent of	Dominant Spec	ies OBL, F	4CW [00"	b
Wetland Hydrology	tation Present? Qes or No	or No	Is this		Point Wi	ithin a We		Yes or lumber:		

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Ho	orse Creek Windpower	Carolin Manner	Date:	10/17/07
			Town:	Clayton
Investigator: Pippin/Stebbins /TTENSO	note		County:	Jefferson
//		* .	State:	NY
Do normal circumstances exist on site? //	A) No	Community: Uplan	d fores	L
Is the site significantly disturbed?	Yes (No)	Transect/Flag ID:		
	8		1/2 11	194
s the area a potential Problem Area?	Yes (No)	Plot ID:	10 0	10
s				
Series and Phase: (Cp) (bying)	for silty day	7 Drainage	Class: V	VD MWD SPD PD VPD
Subgroup: Mollic OChr	aqualts		Sapped Type: (Yenno
Depth Hurizon Matrix color	Mottle color/abundance	Texture, Stru	acture, Other	
)-6" A 101x 2/2	none	ofthe (day loc	lm
111 47		1 1 1		
076+ D 164x6/1 10	OVR S/8 Many		ay	
		***		E
lydric Soil Indicators:		(s)		
HistisolsConcretions			cal Hydric Soils L	
	tent in Surface Layer of Sandy Soils		tential for Hydric	Inclusions Only
Sufidic Odor Organic Streaki Reducing Conditions Gleyed or Low	ring in Sandy Soils	Other (Expla	iin in Remarks)	
	Cittolia color	require areas	me veelime	
andscape position: concave	convex	sloping	_Approximate sl	lope;
flat	undulating	-	*	
emarks:		**************************************		
emirks.	. %			
				1
			- Norway	
ROLOGY Recorded Data (Describe in Remarks)	Field Observ	rations		
No Recorded Data Avai		Ground Surface Inundated	inch	its.
Stream, Lake or Tide G		Soil Saturated.		
Aerial Photographs				
	Depth to Free	: Waterinches.		
	Depth to Satu	rated Soilsinches	i.	
etland Hydrology Indicators:				*4
Primary Indicators	Secondary Inc	dicators (2 or more required)		S
Inundated	_	Oxidized Root Channels in	opper 12 inches	
Saturated in upper 12 in	nches.	Water-Stained leaves	8	
Water Marks		Local Soil Survey	and the second	3
Drift Lines		Morphological Plant Adapta		A
Sediment Deposits Drainage Patterns in We		Other (Explain in Remarks)		
Typurake Lancing in Ac	euand			
marks:		***************************************		
no metland	maro 10 Cu			
no wetland	11/2		9 307	
office files\forms\Data Form Routine \		1	5.	

K ³ K V	3 8**			X:
	05030 Horse Creek Windpower		Date: 10/17/6* Plot ID Number: 5 16 Up	
1 BUR 2 Am. e 3 4 5 buck t 6 tarta 7 8 9 wild 5: 10 11 12 13 14 15 16	horn v honoysuche	6	Indicator: % Cov FAC— 90 FACW— 20 UPL 3C FACU 50 FACU 5	
Remarks:	Sparse hus 10	ryer		
WETLAND DETERM Hydrophytic Vegetati Wetland Hydrology P Hydrologic Connectiv Remarks:	ion Present? Yes or No	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso		

DATA FORM ROUTINE WETLAND DETERMINATION

NE WETLAND DETERMINATION Rochester, N 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/17/07
Pioject No. 03030 Applicant. House Circle, Williamoret	Town: Clayton
Investigator. Pippin/Stebbins / Tremborn	County: Jefferson
in Sugard. Explanation of the Control of the Contro	State: NY
·	
Do normal circumstances exist on site? (You No A Muleur Community: Is the site significantly disturbed? (Yes No O Gella et al. Transect/Flag ID:	PFM w/PFO + chamel
is the area a potential Problem Area? Yes (No) ye will dim pro Plot ID:	t 6 wet
	60/11/60
sons (6V) Gutton Clay	PD/VPD
Series and Phase (C/B) (Naumont S' 1 ty Clay	Drainage Class: WD MWD PD PD VPD
Subgroup: (Mollic Hoplagrepts	Confirm Mapped Type: Yes No
	Texture, Structure, Other
O-81 H 10423/1 None	Dans (10.1
0 11 2	ola la l
8-16"+ B 104R S/1 10/R 5/6 FEW	clays -
THE CONTROL OF THE CO	
Hydric Soil Indicators: Histisols Concretions	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime
Landscape position: concave convex sloping	Approximate slope:
flat undulating	
Remarks:	, * * y
HYDROLOGY	Deleter to the second s
Recorded Data (Describe in Remarks) Field Observations	
No Recorded Data Available Ground Surfac	ce Inundated inches.
Stream, Lake or Tide Gauge Soil Saturated	
Acrial Photographs Depth to Free Water	inches.
Depth to Saturated Soils	inches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators (2 or mo	ore required)
	Channels in upper 12 inches
Saturated in upper 12 inches Water-Stained	
Water Marks Local Soil Sur Drift Lines	
Sediment Deposits Other (Explain	Plant Adaptations
Drainage Patterns in Wetland	The second of
There are	
Remarks:	
s:\edr office files\forms\Data Form Routine Wetland Determination.xls	

Project Number: Applicant:	05030 Horse Creek Windpower					Date: 10/17/07 Plot ID Number: 76 WC+
1 green 2 bhile 3 well a 4 fring 5 weak o 6 name 7	What god.	田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	S/S S/S S/S	T T T T T T T T		Indicator: %Cover: 0BL 30 FACW+ 30 FACW/0BL 10 0BL 40 FACW+ 10 FAC 15
1112131415		H H H H	S/S S/S S/S S/S S/S S/S	T T T T	v v v v v	
	st Species OBL, FACW, FAC	Applied?	(Ves)No		Percent of Dominant Species OBL, FACW_LOO %
Remarks:	*			,		
Wetland Hydrology	MINATION tion Present? (Ves or No Present? (Ves or No ivity to Off-site Wetlands? (Yes or No		Sampli	ng Po	oint W	Yes or No Vithin a Wetland? Liy Isolated? Photo Reference Number:

1,12

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Investigator: Pippin/Stebbins Archibath Do normal circumstances exist on site? Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area? Yes No Plot ID: T6 UPL SOILS (C/B) Chaumont S/My Clay and SPA	107	Date: 15/17/0	Windpower	05030 Applicant: Horse Creek	Project No: 05030
Do normal eferumstances exist on site? In the site significantly disturbed? It the area a potential Problem Area? Yes to Plot ID: Soil	ayton	Town: Clayton	* -	Λ	
Do normal circumstances exist on site? Description D	Terson	County: Jefferso		ippin/Stebbins / Hely bush	Investigator Pippin/St
Do normal circumstances exist on site? Is the site significantly disturbed? Yes (No.) Transact/Flag ID: Transact/Flag ID: Flot ID:				1	
Series and Hapte CV Christian Clary Drainage Class: WD MWD S Subgroup: PROJECT CHARGOGY AND CONFITT MADE CLASS CONFITT MAPPED TYPE: CG No Depth Horizon Matrix color Motile colorabundance Texture, Structure, Other SIH LOAR SI NONC SIH LOAR SIH LO	nllad	T	Transect/Flag ID:	cantly disturbed? Yes No mial Problem Area? Yes No	Is the site significantly dist
Subgroup: Mollic Haginghes and Confirm Mapped Type: Ge No Depth Horizon Matrix color D- Z Horizon Matrix color D	SPD PD VPD	Drainage Class: WD MWD SPD((OV) Guffin cla	Series and Bhase GV
Depth Horizon Matrix color Mortle color/abundance Texture, Structure, Other SIH IOAM			and	Acre Ochraquets	7 Acri
Hydric Soil Indicators:		Confirm Mapped Type: We No		Mollic Hadaquepts	Subgroup:MO
Hydric Soil Indicators: Histicols		-//		1 1 1	Depth Horizon
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Or Suffdic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave convex sloping Approximate slope: flat undulating flow undulating flow of Low Chroma color sloping Approximate slope: Remarks: DROLOGY		N /	root/stone	rejects aux -	12"+ ne
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Or Suffdic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave convex sloping Approximate slope: flat undulating flow undulating flow of Low Chroma color sloping Approximate slope: Remarks: DROLOGY					
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water Marks Drift Lines Morphological Plant Adaptations Sediment Deposits Drainage Patterns in Wetland Remarks:			uoouzaung	uatX	Remarks:
Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators		e Inundatedinches.	Ground Surface I	No Recorded Data Available Stream, Lake or Tide Gauge	
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		inches.	Depth to Free Water	Acras Frontpapis	***************************************
Primary Indicators Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		inches.	Depth to Saturated Soils		
Primary Indicators Secondary Indicators (2 or more required) Linundated Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Pauerns in Wetland Secondary Indicators (2 or more required) Water Stained Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)				gy Indicators:	Wetland Hydrology Indic
Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:		T. 17			
Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Pauerns in Wetland Remarks:		Channels in upper 12 inches	Oxidized Root C	lnundated	
Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:		leaves	Water-Stained lea	Saturated in upper 12 înches.	
Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:	19	20E)			Α
Drainage Patterns in Wetland Remarks:					
Remarks:		in Remarks)	Other (Explain in		-
				LABINAGE PAUEITS IN WEURING	3***
no wetland hydrolosy		**************************************	***************************************	***************************************	
10.00			CY	metland hydrolt	no in
J			01	10.00	- Ad 114.50
dr office files\forms\Data Form Routine Wetland Determination.xls					

Applicant: Horse Creek Windpower		Plot ID Number:	TOUPL.
VEGETATION Dominant Plant Species: 1 bar Oak 2 white Spree 3 grey do swood 4 morrow honeysvekie 5 6 7 fmoth 8 wild straw 9 yanon 10 Canada gold 11	Stratum: (circle one) H SS T V SS T V SS T V SS T V H SS T V	Indicator: FACH FACH FACH FACH FACH FACH FACH FACH	% Cover: 30 10 60 10 60 - 25 30 - 30
13		cent of Dominant Species OBI	, facw_ D
Remarks:	Applied? Kes No		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Is		or 🚱 or No

Observer: Name: Skhms hembah/Pippin Weather: Fair	Project Information: Name: HOSCOCCER
Weather: Jar	Number: 05030 Date: 10/17/07
Stream Name: Unnamed - 10 U	
Stream Location (nearest road, structure, elc.): NOW FUR LIBOUR LIBOR OF DET BLUFF R Adjacent Community: ACAM Ag Land - Hay	d. Nathews Property
Stream Gradient - gentle	
- moderate	
- steep	
Bank Width: 10-151	
Stream Width: 3-51	
Water Depth: NO POW	
Substrate: - Bed Rock Boulder Cobble	
- Cobble - Gravel - Sand - Silt	
- Clay	
Instream Cover: - Undercut bank - Overhanging vegetation O	inse granta of tussocic sedge etc from channel bottom
	*
Flow: - Permanent	
Photo # 1CU 1-12	
Additional Comments:	
Soils = (6v) Guttin Clay; Pl	IVPD, MOIlic Haplaquept
Clayton Twishp, Tefferson	
	V

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date:	1-1-5
as a second	Town:	Clayton
Investigator: Pippin/Stebbins	County:	Jesterson
	State;	NY
Do normal circumstances exist on site? (Yos No	y. Wit meads	sul.
a As cay	1//-7	
Is the site significantly disturbed? Yes (No. 1) I Transcct/Flag II	. / / 1	,
Is the area a potential Problem Area? Yes No Plot II	o: 14 wG	
ons i	*****	
Series and Phase: (CIB) Chammont STIty clay	Drainage Class:	WD MWD (P) PD VPD
Subgroup: ACTC Ochraqual As	Confirm Mapped Type:	No No
V		(F.D. 140
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other	
0-10" A 10/R 6/1 10/R 5/8 -some	day	
10-16" B 10187/1 1048 5/8 1048 8/1 - district		
The state of the s		
Hydric Soil Indicators:		
HistisolsConcretions	_ Listed on Local Hydric Soils	
High Org. Content in Surface Layer of Sandy Soils	_ Listed as Potential for Hydri	c Inclusions Only
	Ather Cambring in Demonstre?	
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)	
Sufidic OdorOrganic Streaking in Sandy Soils Reducing ConditionsGleyed or Low Chroma color	_ Aquic Moisture Regime	
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime	slone:
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime	slope:
Reducing ConditionsGleyed or Low Chroma color Landscape position: concave convex slopin	Aquic Moisture Regime	slope:
Reducing ConditionsGleyed or Low Chroma color Landscape position: concave convex slopin	Aquic Moisture Regime	slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave X convex slopin flat undulating	Aquic Moisture Regime	slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave X convex slopin tendulating	Aquic Moisture Regime	slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave X convex slopin flat undulating	Aquic Moisture Regime	slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave X convex slopin flat undulating	Aquic Moisture Regime	slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave convex slopin flut undulating Remarks: DROLOGY Recorded Data (Describe in Remarks) Field-Observations	Aquic Moisture Regime ag Approximate	slope:
	Aquic Moisture Regime agApproximate Approximate acce Inundated N/A in	slope:
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime ag Approximate	
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime Approximate Approximate Approximate Approximate Approximate	
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime agApproximate ace Inundated/Ain dMDISTinches.	
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime Approximate Approximate Approximate Approximate Approximate	
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime agApproximate ace Inundated MAin dMDist inchesinches.	
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime ace Inundated WA in d. — Moist inches. inches.	ches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	Aquic Moisture Regime ace Inundated MA in d. MOIST inches. inches. nore required) ot Channels in upper 12 inches	ches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	ace Inundated WA in inches. inches. inches. inches. inches. inches. inches. inches. inches.	ches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	ace Inundated WA in inches.	ches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	ace Inundated WA in inches. inches.	ches.
Reducing ConditionsGleyed or Low Chroma color	ace Inundated WA in inches.	ches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	ace Inundated WA in inches. inches.	ches.
Reducing Conditions	ace Inundated WA in inches. inches.	ches.
Reducing Conditions Gleyed or Low Chroma color Landscape position: concave	ace Inundated WA in inches. inches.	ches.

Project Number: 05030 Applicant: Horse Creek Windpower		Plot ID Number:	4 wet
Dominant Plant Species: 1 Styd VUS h 2 Calico aster 3 MOSS 4 Carex Scophia 5 6 7 Gry dogwood	Stratum: (circle cocc) A) S/S T V A) B/S T V A) B/S T V A) B/S T V	Indicator: FACW+ FACW- FACW/OBL FACW FACW	% Cover: 65 - 40 - 30 25
8 9 10 11 12 13 14 15 16	H S/S T V		
Percent of Dominant Species OBL, FACW, FAC	^	ent of Dominant Species OBL,	facw 67%
WETLAND DETERMINATION Hydrophytic Vegetation Present? (Year No Wetland Hydrology Present? (Est or No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks: POLCHIAULY (OMICH d. + SYSUM A SAMUS (d. reinaule)	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso	\sim	r No r No

s:\edroffice files\forms\Data Form Routine Wetland Delineation.xis

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delinestion Manual

 274 North Goodman Street Rochester, New York 14607

05030 Applicant: Horse Creek Windpower Project No: Date: Town: Jefferson Investigator. Pippin/Stebbins County: NY State: Do normal circumstances exist on site? Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: (Ye) No Matrix color Depth Horizon Mottle color/abundance Texture, Structure, Other Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Concretions Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils ___ Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color ___ Aquic Moisture Regime Landscape position: concave convex Approximate slope: undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water_ Depth to Saturated Soils_ inches Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: no well and hydrolosy s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower	Date: 10/25/07 Plot ID Number: 1/4 UPL
VEGETATION	
Dominant Plant Species:	Stratum: (circle one) Indicator: % Cover.
1 tmothy	B S/S T V FACU 100
2 red clove	TO SIST V FACU- ZO
3	H S/S T V
4	H S/S T V
5	H S/S T V
6	H S/S T V
7	H S/S T V
8	A S/S T V
9	H S/S T V
10	H S/S T V
11	H S/S T V
12	H S/S T V
13	H S/S T V
14	H S/S T Y
15	H S/S T V
16	H S/S T V
Percent of Dominant Species OBL, FACW, FAC	Percent of Dominant Species OBL, FACW
Remarks: Mowed to 5"	
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No	Hydric Soils Present? Is this Sampling Point Within a Wetland? Is this Wetland Potentially Isolated? Yes or No
Remarks:	Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/26/07
25 8	Town: Clayton
Investigator: Pippin/Stebbins	County: Jefferson
	State: NY
Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area? Yes No plant from the Transection of the Area? Yes No plant from the Transection of the Area?	nmunity: PSS
Is the site significantly disturbed? Yes (No. Latt. Live 1/4 Transects	man 10/1-6
Is the site significantly disturbed? Yes No plant with a Transect Yes No plant with a Transect Yes No plant with a Transect	Plot ID: W / wet
Is the area a potential Problem Area? Yes No Pard	Plot ID: W / WEF
SOILS (CIA) Chausand salte colo	
Series and Phase: (CIII) (MMNO) H 8/179 (My	Drainage Class: WD MWD SPD PD VPD
Series and Phase: (CIA) Chaumort Silty Clay Subgroup: Acric Ochraqual &	Confirm Mapped Type: Yel No
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
0-8" A 104R 3/1	With clan
8-16" B love 6/1 101R 5/9 - some, distinct	day
8-16" B 104R 6/1 101R 5/9 - Some, distinct	inny
Hydric Soil Indicators:	4
HistisolsConcretions	Listed on Local Hydric Soils List
Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Suffide Odor Organic Streaking in Sandy Soils	Listed as Potential for Hydric Inclusions Only
Sufidic OdorOrganic Streaking in Sandy SoilsReducing Conditions Gleyed or Low Chroma color	Other (Explain in Remarks) Aquic Moisture Regime
<u></u>	
Landscape position: concave convex	slopingApproximate slope:
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Field Observations	d Surface Inundated N/A inches
A CONTROL DAME I I PRINCIPO	d Surface Inundated N/ / inches. aturated Mo75+
Aerial Photographs	. I.
Depth to Free Water_	U/A inches.
Depth to Saturated So	oils N/A inches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators	
	zed Root Channels in upper 12 inches
	-Stained leaves
	Soil Survey hological Plant Adaptations
	(Explain in Remarks)
Drainage Patterns in Wetland	No.
Remarks:	
hummody terrain	
s:\edr office files\forms\Data Form Routine Wetland Determination xls	

Project Number: 05030 Applicant: Horse Creek Windpower		Plot ID Number: W./	wet
VEGETATION Dominant Plant Species: 1 WH Willow 2 Mid Osier do mood 3 grey do mood 4 Whith sprice 5 Meadlansweet 6 Silver meple 7 8 Fix & dge 9 SOFF mest 10 Mood grass 11 Namow leaf Gold 12 13 14 15 16	Stratum: (circle occ) H S/S T V P S/S T V P S/S T V P S/S T V H S/S T V	Indicator: FACW/OBL FACU FACU FACU FACW OBL FACW+ FACW+ FACW+ FACW+ FACW FACC	%Cover. 40 20 60 10 20 20 66 20 10
Percent of Dominant Species OBL, FACW, FAC 100 % 50/20 Rule App	B	t of Dominant Species OBL, FAC	w75%
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? (Yes or No Wetland Hydrology Present? (Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola	<u></u>	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Wit	adpower			10/26/07
w w			Town:	Clayton
Investigator. Pippin/Stebbins			County:	Jefferson
			State:	NY
Do normal circumstances exist on site? Is the site significantly disturbed? Yes No Yes No Yes No Yes No Yes No	give As Lyfiuld In	Community: ACA ansect/Flag ID: W Plot ID: W	way	
				2000
(CIA) Chaumost Si	14. 110			WD MWD(SPD PD VPD
Series and Phase: (CIA) Chaumont Sin Subgroup: Acric Ochragua	19 000	Draina	ge Class:	0
Subgroup: HONG VENTAGNOW	175	Confirm	Mapped Type:	(Vec No
Depth Horizon Matrix color Mott	de color/abundance	Texture,	Structure, Other	
		1		

			all i	
Hydric Soil Indicators:				
HistisolsConcretions		Listed on	Local Hydric Soils	List
Histic EpipedonHigh Org. Content in Surface L	ayer of Sandy Soils	And the second of the second o	Potential for Hydric	
Sufidic OdorOrganic Streaking in Sandy Soil	ls ,	Other (Ex	plain in Remarks)	
Reducing Conditions Gleyed or Low Chroma color			isture Regime	
		Aquic Mo	mount recture	
		Aquic Mo	and regule	
Landscape position: concave	convex	Aquic Mo	Approximate	slope:
Landscape position: concave	convex			slope:
Landscape position: concave				slope:
Landscape position: concave u	ndulating	sloping	Approximate	
Landscape position: concave u	ndulating	sloping	Approximate	
Landscape position: concave	ndulating	sloping	Approximate	
Landscape position: concave that u	ndulating	sloping	Approximate	and the second s
Landscape position: concave un Remarks: No SDI Sample faken	ndulating	sloping	Approximate	
Remarks: No SDI Sample faken DROLOGY	- SOIS di	stubed fr	Approximate	
Remarks: No Soil Sample faker DROLOGY Recorded Data (Describe in Remarks)	Field Observa	sloping	Approximate	wing
Remarks: No Soil Sample faken DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	Field Observa	sloping STWB A fractions Ground Surface Inundate	Approximate	
Remarks: No Soil Sample faker DROLOGY Recorded Data (Describe in Remarks)	Field Observa	sloping	Approximate	wing
Remarks: Concave	Field Observa	sloping STUBO of five tions Ground Surface Inundate Soil Saturated.	Approximate TOWN PT of	wing
Remarks: No Soil Sample faker Data (Describe in Remarks) No Recorded Data (Describe in Remarks) Stream, Lake or Tide Gauge Aerial Photographs	Field Observa	sloping STUBO of five tions Ground Surface Inundate Soil Saturated.	Approximate	wing
Remarks: No Soil Sample faken DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators:	Field Observation Depth to Free V Depth to Satura	sloping Stube of five tions Ground Surface Inundate Soil Saturated. Vaterinches. uted Soilsinc	Approximate TOW PT to	wing
Remarks: No Soil Sample faken DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators	Field Observa Depth to Free V Depth to Satura	sloping sloping Stub of five states in the state of Soilsincluded states are greatered for the states of t	Approximate TOW PT to d in thes.	wing thes.
Remarks: DROLOGY	Field Observa Depth to Free V Depth to Satura	sloping STUB A for tions Ground Surface Inundate Soil Saturated. Naterinches. ated Soilsinc cators (2 or more required Oxidized Root Channels	Approximate TOW PT to d in thes.	wing thes.
Remarks: No Soil Sample faken	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. ted Soilsinc cators (2 or more require. Oxidized Root Channels Water-Stained leaves	Approximate TOW PT to d in thes.	wing thes.
Remarks: No Soil Sample faker	Field Observa Depth to Free V Depth to Satura	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. ded Soilsinc cattors (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey	Approximate DM DT d in hes. d) in upper 12 inches	wing thes.
Remarks: No Soil Sample faker	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. and Soilsinches. cators (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey Morphological Plant Ada	Approximate DV	wing thes.
Remarks: No Soil Sample faker	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. ded Soilsinc cattors (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey	Approximate DV	wing thes.
Remarks: No Soil Sample faker	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. and Soilsinches. cators (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey Morphological Plant Ada	Approximate DV	wing thes.
Remarks: Concave	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. and Soilsinches. cators (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey Morphological Plant Ada	Approximate DV	wing thes.
Remarks: Concave	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. and Soilsinches. cators (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey Morphological Plant Ada	Approximate DV	wing thes.
Remarks: Concave	Field Observa Depth to Free V Depth to Satura Secondary Indi	sloping sloping stions Ground Surface Inundate Soil Saturated. Vaterinches. and Soilsinches. cators (2 or more require. Oxidized Root Channels Water-Stained leaves Local Soil Survey Morphological Plant Ada	Approximate DV	wing thes.

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/26/67- Plot ID Number: 10/26/67-
Applicant: Horse Creek Windpower		Plot ID Number: 10 1 0 F. C
VEGETATION	9	
Dominant Plant Species:	Stratum; (circle one)	Indicator: % Cover;
1 timothy	B SIS T V	FACU 10070
2 red dover	B S/S T V	FACU- 1020
3	H S/S T V	
4	H S/S T V	
5	H S/S T V	7
6	H S/S T V	
7	H S/S T V	
8	H S/S T V	
9	H S/S T V	
10	H S/S T V	
n	H S/S T V	
12	H S/S T V	
13	H S/S T V	
14	H S/S T V	**************************************
15	H S/S T V	
16	H S/S T V	
		1
Percent of Dominant Species OBL, FACW, FAC	~	et of Dominant Species OBL, FACW
50/20 Rule App	plicd? (Yes) No	
Remarks: mowed to 511	f .	
WETLAND DETERMINATION		
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a	Wetland? Yes or No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isola	***************************************
Remarks:		Photo Reference Number:

Stream Inventory



Observer: Pingin	Project Information: Name: ##DYSL Creeke
Name: Subbirs Pipin Weather: Sunny	Number: 05030 Date: 10/26/07
Stream Name: Unnamed - IC X	
Stream Location (nearest road, structure, etc.): Sw of Lowerd (Culvert under) Sw of Adjacent Community: Active tra Houghed, D	Sternberg Rd
Adjacent Community: ACTVE to Hay Fed, D	ld held
Stream Gradient - gentle 🔟	
- moderate - steep	
Bank Width: 35-40' (N) 8-10' (5	5)
Stream Width: Voriable, and 10-15 feet (N)) 4-6 fect (5)
Water Depth: MD Flow	
Substrate: - Bed Rock	
- Boulder Talso some or	reas of sadiffient deposit
- Cobble	
- Sand	
- Silt	
- Clay 🗶	
Instream Cover: - Undercut bank	
- Overhanging vegetation	
- Logs/woody debris	79
- Deep pools - Other Shall mpools on 5 510	10 diamend 1-3"
- Other Staning Odis On 3 310	* CA dist /C
Flow: - Permanent	
- Intermittent X	
Photo # 16 X	
Photo # 1C X Flag #'s 1C X 1-14	
Additional Comments: 2 foot diorneter	
Soils = Galway silt / Dam, MWD/	WD, Typic Butochrepts
Clayton Tunshp, Tefferson (by	
The second secon	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

The state of the s			Date:	10/26/07
			Town:	Clayton
Investigator. Pippin/Stebbins			County:	Jefferson
		100	(Cerial)	NY
Do normal circumstances exist on site? Is the site significantly disturbed? Yes No Yes No	1	Community:	Channel W/P4	OiPEM floodp Ct
Subgroup: Acnc Ochraqual f. Depth Horizon Matrix color Mott	STIFY Clo	ay	Drainage Class: Confirm Mapped Type: Fexture, Structure, Other	WD MWI SPIDPD VPD
0-7" A 104R4/1 NO	ne		Clay	
7- B 1040 6/1 1041 5/8	104R 4/1 1	havy	daz	
Remarks:	- LZ			
	N .*			
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs		Ground Surface Soil Saturated Water	Inundatedi MDIST inches.	vittus Channe
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	NO Depth to Free	Ground Surface Soil Saturated.	Inundatedi MDIST inches.	× ×
No Recorded Data Available Stream, Lake or Tide Gauge	NO Depth to Free Depth to Satu	Ground Surface Soil Saturated. Water > 16 water Soils > 16 dicators (2 or more Oxidized Root (2 Water-Stained le Local Soil Survey	Inundated in Inches. inches. required) Channels in upper 12 inches. exercises	nches.
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	NO Depth to Free Depth to Satu	Ground Surface Soil Saturated. Water > // wated Soils > // dicators (2 or more Oxidized Root C Water-Stained le Local Soil Surve Morphological F	Inundated in Inches. inches. required) Channels in upper 12 inches. exercises	nches.

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/26/07 Plot ID Number: 7 7 WC+
VEGETATION Dominant Plant Species: 1 Sers, the fem 2 bulflag. 3 walk harehound 4 Canay rea grass 5 wifflag Sidges 6 7 Green ash 8 9 10 11 12 13 14	Stratum: (circle osc) S/S T V S/S T V	Indicator:
Percent of Dominant Species OBL, FACW, FAC (2090) 50/20 Rule App	250	nt of Dominant Species OBL, FACW_OD%
Remarks:		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Ves or No Wetland Hydrology Present? Ves or No Hydrologic Connectivity to Off-site Wetlands? Ves or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola	

ş.,

, . . . , . . .

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

	Town: Clayton
Investigator. Pippin/Stebbins	County. Jefferson
	State; NY
Do normal circumstances exist on site? Reg No	Community: Active As Hayfield
Is the site significantly disturbed?	Transcot/Flag ID:
Ϋ́.	Plot ID: 77 UPC
Is the area a potential Problem Area?	rock. 7 7 by
DILS	
Series and Phase: (KgA) Kngsbury SI	1/49 Clay Drainage Class: WD MWD SPDPD VPD
Series and Phase: C. J. 1710.10000131	
Subgroup: HMC UCW agualts	Confirm Mapped Type: Yes No
Depth Horizon Matrix color Mottle	e color/abundance Texture, Structure, Other
0-16" A 104R4/3 Non	e clay
Tr. A.C. C. II V. Zi	
Hydric Soil Indicators: Histisols Concretions	Listed on Local Hydric Soils List
Histic Epipedon High Org. Content in Surface Lay	
Sufidic OdorOrganic Streaking in Sandy Soils	
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime
Landscape position: concave	convex sloping Approximate slope:
100 Miles	
flat und	dulating
	yers mixed by floring
Remarks: Spils disturbed - la	
Spils disturbed - la	yers mixed by flowing
Spils disturbed - low DROLOGY Recorded Data (Describe in Remarks)	yers mixed by glowing Field Observations
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	yers mixed by flowing Field Observations
Spils disturbed - low DROLOGY Recorded Data (Describe in Remarks)	Yers mixed by glowing Field Observations Ground Surface Inundatedinches.
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Yers mixed by glowing Field Observations Ground Surface Inundatedinches.
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations Ground Surface InundatedinchesSoil Saturated.
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations Ground Surface Inundatedinches. Depth to Free Waterinches.
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs	Field Observations Ground Surface Inundatedinches. Depth to Free Waterinches.
BROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches
Remarks: SDIIS dishubed - (OV DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches.	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves
Remarks: SDIIS dishubed - (O) DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations
BROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations
Remarks: Soils dishubed - (O) Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)
Remarks: Soils dishubed - (O) Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)

Applicant: Horse Creek Windpower	Date: Plot ID Ne	mber: 9 7 upl
VEGETATION		* 1
Dominant Plant Species:	Stratum: (circle ooe) Indicat	or: % Cover:
1 timothy	@ SIS T V FAC	4 70
2 milkweed	AS SIS T V NC	10_
3 lagweed	B SIST V FACE	4 20
" Ned clover	® SIS T V FAC	U- 25
s bull thiste	G SIST V FACE	1- 20
6	H S/S T V	
7	H S/S T V	
8	H S/S T V	
9	H S/S T V	
10	H S/S T V	
11	H S/S T V	
12	H S/S T V	
13	H S/S T V	
14	H S/S T V	
15	H S/S T V	
16	H S/S T V	
Percent of Dominant Species OBL, FACW, FAC 9	6	Species OBL, FACW
Remarks: Moved to 811		
AND ADDRESS OF THE PARTY OF THE	****	-
ETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No	Hydric Soils Present? Yes or No	
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a Wetland?	Yes or No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isolated?	Yes or No
Remarks:	Photo Refere	4 FG At 1 10

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Tower Clayton Jefferson State: NY	Investigator: Pippin/Stebbins	
Do normal circunstances exist on site? Do normal circunstances exist on site? Is the site significantly dinumbed? Is the area a potential Problem Arma? Ves (6) Flot ID: Transcet/Flag ID: Z	Investigator: Pippin/Stebbins	Town: Clayton
Do normal circumstances exist on size? Secondary Indicators: Yes No		County: Jefferson
Is the area a potential Problem Area? Yes (No) TranscotFlag ID: Z Z Flot ID: Z U-C Drainage Class: WD MWD (SFD) PD VPD Subgroup: Horizon Manix color Moule color/abandance Depth Horizon Manix color A 10 M. 3/2		State: NY
Is the area a potential Problem Area? Yes (No) TranscotFlag ID: Z Z Flot ID: Z U-C Drainage Class: WD MWD (SFD) PD VPD Subgroup: Horizon Manix color Moule color/abandance Depth Horizon Manix color A 10 M. 3/2	Parameter and a single state of the state of	PFM
Series and Phase: (KgA) Kngsbury Silly Clay Drainage Class: WD MIVE STDPD VPD Subgroup: Confirm Mapped Type: & No Depth Horizon Matrix color Mostle color/abundance Historic Epipedon High Org Content in Surface Layer of Sandy Soils Historic Epipedon Sunface Coder High Org Content in Surface Layer of Sandy Soils Clayd Organic Strucking in Sandy Soils Reducing Conditions Concave Concave Soils Mostle Remarks Aquic Moisture Regime Approximate slope: Mostle Color Surface Inundated Struam, Lake or Tide Gauge Aerial Protographs Field Observations ND Ground Surface Inundated Strucking in Sandy Soils ND Ground Surface Inundated ND Soil Sauranced. MA inches. ND Ground Surface Inundated Survay Indicators: Primary Indicators Secondary Indicators: Other (Explain in Remarks) More Marks Drift Lines Morphological Plant Adaptations Other (Explain in Remarks) Cher (Explain in Remarks)		71-17
Series and Phase: (KgA) Knaslawy Silty Clay Drainage Class: WD MIVIT STD PD VPD Subgroup: Horizon Matrix color Mostice color/abundance Depth Horizon Matrix color Mostice color/abundance Horizon Matrix color Mostice color/abundance Depth Horizon Matrix color Mostice color/abundance Horizon Matrix color Color Mostice color/abundance Historice Hundre Clayer Historice Hundre Clayer of Sandy Soils Listed on Local Hydric Soils List Listed on Local	Is the site significantly disturbed? Yes (No) Transect/Flag ID:	2112
Series and Phase: (Mg A) Knashwy Silty Clay Subgroup: And Older agulars Depth Horizon Matrix color Mostle color/abundance Depth Boltz Matrix Color Color Color Clay Depth Sell List Histicols High Org. Content in Surface Layer of Sandy Soils Distillated as Potential for Hydric Soils List Listed on Local Hydric Soils List Listed on Local Hydric Soils List Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Other (Explain in Leusance only Color (Explain in Included Note Color Col	Is the area a potential Problem Area? Yes No Plot ID:	ZII bet
Depth Horizon O-G'' A 10/0.3/2 NONE B-16'' B 10/1.6/1 16/2.5/2./DYR 3/2 MANY Hydric Soil Indicators: Histisols Histic Epipedon High Org. Concent in Surface Layer of Sandy Soils Jorganic Streaking in Sandy Soils Gleyed or Low Chroma color Concessions Aquic Moisture Regime Convex Gleyed or Low Chroma color Convex Stopping Approximate slope: No Recorded Data (Describe in Remarks) Field Observations NO Ground Surface Inundated N/A inches. NO	Series and Phase: (KgA) Kingsbury Silty Clay	^
Hydric Soil Indicators: Histisols	Subgroup: MIC UMIAQUALES C	onfirm Mapped Type: (Yes) No
Bydric Soil Indicators:	Depth Horizon Matrix color Mottle color/abundance Te	xture, Structure, Other
Hydric Soil Indicators: Histisols Histic Epipedon Sulfdic Odor Sulfdic Odor Reducing Conditions High Org. Content in Surface Layer of Sandy Soils Sulfdic Odor Reducing Conditions Landscape position: Concave Industria Remarks: COROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Primary Indicators Primary Indicators Primary Indicators Secondary Indicators: Secondary Indicators: Mare: Marks Diffi Lines Secondary Indicators: Mare: Stained in upper 12 inches Water-Stained leaves Mare: Stained in Remarks) Other (Explain in Remarks)	0-8" A 10483/2 none	Clay
Histisols Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Suffide Odor Suffide Odor Reducing Conditions Landscape position: Concave flat Undulating Remarks: COROLOGY Recorded Data (Describe in Remarks) No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators: Primary Indicators: Primary Indicators Water Marks Dofft Lines Water Marks Dofft Lines Sediment Deposits Drainage Patterns in Wetland High Org. Content in Surface Layer of Sandy Soils Listed on Local Hydric Soils List Aquic Moisture Regime Approximate slope: Approximate	8-16" B 10426/1 104x 5/8,1042 3/2 many	Clay
Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 / b inches.	Landscape position: concave convex sloping	Approximate slope:
No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7/b" inches. Depth to Saturated Soils 16" inches. Depth to Saturated Soils 16" inches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Other (Explain in Remarks)	Nettat As:	
Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 716 inches. Depth to Saturated Soils 716 inches. Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Soil Saturated. — MOS 4 Depth to Free Water 716 inches. Depth to Free Water 71		*.
Aerial Photographs Depth to Free Water 7 1 inches. Depth to Saturated Soils 7 16 inches. Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Free Water 7 1 inches. Depth to Free Water 7 inches.	/DROLOGY Recorded Data (Describe in Remarks) Field Observations	
Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Saturated Soils 7/6 inches. Secondary Indicators (2 or more required) Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	TDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Of Ground Surface In	undated N/A inches.
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water Stained leaves Water-Stained leaves Local Suil Survey Morphological Plant Adaptations Other (Explain in Remarks)	DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge No Recorded Data Available Stream Lake or Tide Gauge No Soil Saturated.	MOIST
Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Water-Stained leaves Local Soil Survey Drift Lines Morphological Plant Adaptations Other (Explain in Remarks)	DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 16 in	ches.
Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks)	PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 15 in Depth to Saturated Soils 7 16	ches.
Water Marks Drift Lines Drift Lines Sediment Deposits Drainage Patterns in Wetland Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 15 in Depth to Saturated Soils > 16 Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more in	ches. inches.
Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland	DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 1 in Depth to Saturated Soils 7 16 Wetland Hydrology Indicators: Primary Indicators Inundated Primary Indicators Oxidized Root Che	ches. inches. equired) annels in upper 12 inches
Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland	Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available ND Ground Surface In Surface In NO Soil Saturated NO	ches. inches. equired) annels in upper 12 inches
V V	Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available No Ground Surface In Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 1 in	ches. inches. equired) annels in upper 12 inches
	Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Surcam, Lake or Tide Gauge No Soil Saturated.	chesinches. equired) annels in upper 12 inches ves
	Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available No Ground Surface In Stream, Lake or Tide Gauge No Soil Saturated.	chesinches. equired) annels in upper 12 inches ves
	Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7 / b in Depth to Saturated Soils 16 Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Field Observations Field Observations Doround Surface In Depth to Free Water 7 / b in Depth to Saturated Soils 16 Secondary Indicators (2 or more in Water-Stained leav Water-Stained leav Morphological Pla Other (Explain in 16	chesinches. equired) annels in upper 12 inches ves

Project Number: Applicant:	05030 Horse Creek Windpower	Date: 10/26/07 Plot ID Number: 7 11 WCF
1 wef (a) 2 3 wi7/o) 4 5 6 7 8 9 10 11 12	nant Plant Species: Ld S-edge V - Crack	H S/S T V H S/S T V H S/S T V
1516	nt Species OBL, FACW, FAC/DO	H S/S T V H S/S T V
Remarks:	2 5% blue Cal	ule Applied? (Yes No Vovos'n Vico Oster
	^	Hydric Soils Present? Is this Sampling Point Within a Wetland? Is this Wetland Potentially Isolated? Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

	wer Date: 10/26/07
	Town: Clayton
Investigator. Pippin/Stebbins	County: Jefferson
	State: NY
	nit had
Do normal circumstances exist on site?	Community: Ola Hield
Is the site significantly disturbed? Yes (%)	Transcet/Fing ID:
Is the area a potential Problem Area? Yes No	Plot ID: Z // Lep L
ions	0/- /-
Series and Phase: (WNB) WI POMT SI /tu	Clay loan Drainage Class: WD AND SPD PD VPD
Subgroup: Agnic Haphdasts	Confirm Mapped Type: (You No
- 1/#: A :	or/abundance Texture, Structure, Other
0-16 A 101/23/3 NONE	e ciwr
Hydric Soil Indicators:	, et
HistisolsConcretions	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer o	
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime
	/ / / /
STICKET AND STATE OF THE STATE	vex sloping Approximate slope: 92
flat uodulat	
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	Field Observations Ground Surface Inundatedinches.
POROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	Field Observations Ground Surface Inundatedinches.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations Ground Surface Inundated inches. Soil Saturated. Dopth to Free Water inches.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Field Observations Ground Surface Inundatedinches. Soil Saturated. Dopth to Free Waterinches.
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators:	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches.
Remarks: Property Property	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)
Remarks: VDROLOGY	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches.
Remarks: PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches.	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches
Remarks: YDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey
Remarks: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Drift Lines Undulated Undulat	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations
Remarks: Primary Indicators: Primary Indicators: Primary Indicators Saturated in upper 12 inches. Water Marks Drainage Patterns in Wetland Drainage Patterns in Wetland Drainage Patterns in Wetland Drainage Patterns in Wetland	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations
Remarks: Variable	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches Average Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)
Remarks: PDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)

Project Number: 05030		Date: 10/26/07
Applicant: Horse Creek Windpower	· .	Plot ID Number: 2// UPL
VEGETATION		
Dominant Plant Species:	Stratum: (circle one)	Indicator: % Cover:
1 timoth	(H) S/S T V	FACY 80%
2 a Anne's lace	OP S/S T V	FACY 10
3 Canada gold	(B) S/S T V	FAW 10
4	H S/S T V	
5	H S/S T V	
6	H S/S T V	
7	H S/S T V	
8	H S/S T V	
9	H S/S T V	
10	H S/S T V	· · · · · · · · · · · · · · · · · · ·
11	H S/S T V	110
12	H S/S T V	
13	H S/S T V	
14	H S/S T V	
15	H S/S T V	*
16	H S/S T V	
Percent of Dominant Species OBL, FACW, FAC	Percer	nt of Dominant Species OBL, FACW_
50/20 Rule A	pplied? (Yes No	
; .		
Remarks:		
		and the same of the same
WETLAND DETERMINATION	- 3	
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes of No
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a	Wetland? Yes or No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isola	
Remarks;		Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Wit	ndpower		Date:	10/25/07
			Town:	Clayton
Investigator: Pippin/Stebbins			County:	Jefferson
	,		State:	NY
Do normal circumstances exist on site? (Y2 No A	in the	Community: Wet	Mendon	
0 "	grandst x		11/	
Is the site significantly disturbed? Yes (No.	AUX ON I	ransect/Flag ID:	77/-6	
Is the area a potential Problem Area? Yes (Ng) NW	pondy fiers	Plot ID: HF	13 WC	<i></i>
SOILS		 		
Series and Phase: (CIB) Chowmont Sily	La clair		ige Class:	WD MWD SPD PD VPD
Series and Palasci (UD) 4 1000 1100 1 3/1/	90,000	Drama	ige Cm3s:	A STATE STUTE VIEW
Subgroup: HUNC Ochraqualt	5	Confirm	n Mapped Type:	(Yes) No
	le color/abundance	Texture	Structure, Other	
0-12" A 10483/2 non.	l	C	ay	
			0	
12" volly layer rejects as	iger			b
Hydric Soil Indicators:				
Histisols Concretions		Listed on	Local Hydric Soils	List
Histic Epipedon High Org. Content in Surface L:	ayer of Sandy Soils		Potential for Hydri	
Sufidic OdorOrganic Streaking in Sandy Soil		Other (E	xplain in Remarks)	
Reducing ConditionsGleyed or Low Chroma color		Aquic M	oisture Regime	
				. 0207
Landscape position: concave	convex	sloping X	Approximate	slope: 0-3 %
flat w	ndulating	-		
***************************************		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\$254534.00509.0050.00509.3000.00050637.65.65.0
Remarks:				
	· ·			
The state of the s				
YDROLOGY				177 V
Recorded Data (Describe in Remarks)	Field Observ	ations		
No Recorded Data Available	yes	Ground Surface Inundate	ed0-2"ir	ches.
Stream, Lake or Tide Gauge	Yes	Soil Saturated.		
Aerial Photographs	Depth to Free	Water O inches.		
		tr Park		
	Depth to Satu	rated Soils + O in	ches.	
Wetland Hydrology Indicators:				
Primary Indicators	Secondary Inc	licators (2 or more require		
Inundated	A	Oxidized Root Channels	in upper 12 inches	
Saturated in upper 12 inches. Water Marks	,	Water-Stained leaves Local Soil Survey		
Drift Lines	_	Morphological Plant Ad	antanions	* * *
Sediment Deposits		Other (Explain in Remai		
Drainage Patterns in Wetland	-		- E	
***************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Remarks:		- X		
hummocky krrain			4	Λ. Φ
9.10				
leds office files/forms/Data Form Routine Wetland De	termination vis		/	* 1. C

Project Number: Applicant:	05030 Horse Creek Windpower				*	Date: 10/ Plot ID Number: AM	3 wet
1 grun 2 cana 3 Brden 4 path 5 hissor 6 orlf 7	nant Plant Species: by reid grass is Prondosa rush che Sedge mush sedge	Д Д Д Д Н Н	1000	T	v v v v v v v v v v v v v v v v v v v	FACW FACW FACW FACW OBL OBL	% Cover: 30 - 30 - 5 15 30 - 10
11 12 13 14 15		H H H	S/S S/S S/S S/S S/S	T T T T	v v v v		
Percent of Dominar	nt Species OBL, FACW, FAC_	100 % 50/20 Rule Applied?	(Ves)	No	*******	Percent of Dominant Species OBL, FA	cw_1009.
Remarks:	MINATION		- 1				
Hydrophytic Vegeta Wetland Hydrology	ntion Present? (Les or No Present? (Les or No	G ·	Samplin	ıg Po	int V	t Within a Wetland? tially Isolated? Photo Reference Number:	` '

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Do normal circumstances exist on site? Is the site significantly disturbed? Yes No Yes No Yes No	Community. Old Field Transcet/Fing ID: AA Plot ID: AA 3 UPC
	Drainage Class: WD MWD (SPD PD VP) LES Confirm Mapped Type: (Yes) No Texture, Structure, Other Silty Clay
Hydric Soil Indicators: Histisols	
PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches.

Project Number: 05030 Applicant: Horse Creek Windpower	Date: Plot ID Numb	10/25/07 AM 3 UPL
Dominant Plant Species: 1 timely 2 Q. Annu's lace 3 bull thistle 4 ria grats (angopsis asp.) 5 curry dock 6 7 8 9 10 11 12 13 14	Stratum: (circle occ) AT S/S T V FACU AT S/S T V FACU	5
Percent of Dominant Species OBL, FACW, FAC	^	ecies OBL, FACW
Remarks:		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Yes or No Is this Sampling Point Within a Wetland? Is this Wetland Potentially Isolated? Photo Reference	Yes or No Yes or No Number:

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual 05030 Applicant: Horse Creek Windpower Date: Project No: Clayton Town: Investigator: Pippin/Stebbins Jefferson County: NY State: Do nonnal circumstances exist on site? Community: Is the site significantly disturbed? Is the area a potential Problem Area? SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Matrix color Texture, Structure, Other Mottle color/abundance 10YR 3/3 Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) _ Aquic Moisture Regime Reducing Conditions Gleyed or Low Chroma color Laudscape position: Approximate slope: convex sloping undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) ND No Recorded Data Available Ground Surface Inundated Soil Saturated Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water 7(6 inches, Depth to Saturated Soils 76 inches. Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches, ★ Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland

Remarks:

Lummorky

Project Number: Applicant:	05030 Horse Creek Windpower			×			10/25/07 BB / Wet
1 Wetton 2 Meall 3 4 Spha 5 Carex 6	nant Plant Species: d Willow msneet gnum c Scopana	H H H	SIS SIS SIS SIS SIS	T T T		Indicator: FAW/OBL FACW + FACW/OBL FACW	% Cover. 7-0 4-0
10		— н — н — н	S/S S/S S/S S/S S/S S/S S/S S/S S/S	T T T T T T T	v v v v v		
	Sparse Lub la	ule Applied?	Zv.	No		Percent of Dominant Species	OBL, FAC # <u>002</u>
	0	Is this		ing Po	oint W		Yes or No Yes or No ber:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Do normal circumstances exist on site? Yes No Martin Community:	White sprue plantation
	BB I UPL
Non lowludgen	rainage Class: WD MWD SPD PD VPD
	sture, Structure, Other SITH UM
4-16" B 104R3/2 none	51 thy day
Reducing Conditions Gleyed or Low Chroma color Aqui Landscape position: concave convex sloping undulating Remarks:	Approximate slope:
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water incl	inches.
Depth to Saturated Soils Wetland Hydrology Indicators:	inches.
Primary Indicators Secondary Indicators (2 or more rec	nnels in upper 12 inches es at Adaptations

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/75/67 Plot ID Number: BB 1 UPL
Dominant Plant Species: 1	Stratum: (circle one) H S/S T V H S/S T V	Indicator: % Cover: 40
Percent of Dominant Species OBL, FACW, FAC 17 % 50/20 Rule A	(2)	nt of Dominant Species OBL, FACW
Remarks: Sponse herb layer		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isol	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

		Date;	10/25/07
	, #	Town:	Clayton
Investignor. Pippin/Stebbins		County:	Jefferson
		State:	<u>NY</u>
Do normal circumstances exist on site? Yes No	Commu	nity: PSS	
Is the site significantly disturbed? Yes (No)	Transcct/Flag	D CC - 1-2	z -
ý			xt.
Is the area a potential Problem Area? Yes No.	F10	ID: 109 1	<u> </u>
II.S			
Series and Phase: (GV) Guffin Cla	y	Drainage Class:	WD MWD SPO PD VPD
	nepts		
Subgroup: 11/0/1/C Haplag	negris	Confirm Mapped Type:	Yes No
S C : A ! . !	dottle color/abundance	Texture, Structure, Other	
0-9 A 104R3/1	none	any	1
9-16 B 10/1 /1 104	R 4/4 104R 7/4	Clan	
		1 1	
Landscape position: concave	convex slo	pingApproximate	slope:
		pingApproximate	slope:
flat		pingApproximate	slope:
flat		pingApproximate	e slope:
flat X		pingApproximate	e slope:
Remarks: DROLOGY Recorded Data (Describe in Remarks)	undulating		***************************************
Remarks: DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	Field Observations	urface Inundated N/A is	s slope:
Remarks: DROLOGY Recorded Data (Describe in Remarks)	Field Observations NO Ground St NO Soil Satur	urface inundated N/A in atod. – Mo187	***************************************
Remarks: DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations NO Ground St NO Soil Satur	urface Inundated N/A in ated. — MOIST inches.	***************************************
Remarks: DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Field Observations NO Ground St NO Soil Satur	urface Inundated N/A in ated. — MOIST	nches.
Remarks: DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators:	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils	urface Inundated NA in ated. – MOIS + inches. inches.	nches.
Remarks: DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of	urface Inundated N/A in ated. – Mo/S + inches. inches.	iches.
Remarks: DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Water-State)	inches. inches	iches.
Remarks: DROLOGY	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Water-State Local Soils)	inches. inches	iches.
Remarks: DROLOGY	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Modern Soils) Water-Sta Local Soil	inches. inches	iches.
Remarks: DROLOGY	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Modern Soils) Water-Sta Local Soil	inches. inches	iches.
Remarks: DROLOGY	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Modern Soils) Water-Sta Local Soil	inches. inches	iches.
Remarks: DROLOGY	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Modern Soils) Water-Sta Local Soil	inches. inches	iches.
Remarks: DROLOGY	Field Observations NO Ground St NO Soil Satur Depth to Free Water Depth to Saturated Soils Secondary Indicators (2 of Modern Soils) Water-Sta Local Soil	inches. inches	iches.

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10/2 Plot ID Number: CC	5707- 4 wet				
Dominant Plant Species: 1 AM PM 2 3 We Hard Willow 4 gray dognood 5 Ned Oster No gwood 6 meador sweet 7 8 Soft Mush 9 wood grass 10 that camer 11 Moss 12 13 14 15 16	Stratum: (circle one) H S/S D V H S/S T V	Indicator: FACW - FACW / OBC FAC FACW + FACW + FACW + FACW + FACW + FACW + FACW OBC FACW / OBC FACW / OBC	%Cover: 20 - 50 - 50 - 25 20 10 20 - 30 - 30 -				
Percent of Dominant Species OBL, FACW, FAC							
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Isol	,	_				

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual 05030 Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator: Pippin/Stebbins Jefferson County: NY State: phitatio Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transcct/Flag ID: Plot ID: Is the area a potential Problem Area? SOILS point silty clay loan Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: (Monle color/abundance Matrix color Texture, Structure, Other none Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave Approximate slope: undulating flat Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated inches Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water_ Depth to Saturated Soils Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches, Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:

no withank hydrology

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 18/25/07 Plot ID Number: CCH UPL
VEGETATION		The state of the s
Dominant Plant Species:	Stratum: (circle one) H S/S D V	Indicator: % Cover:
2 Q. asper	H S/S G V	FACU 35
3	H S/S T V	
4	H S/S T V	
s morrow honeysukle	H S T V	FACU 25
6	H S/S T V	
7	H S/S T V	
8 Francia vulgaris 9 Fragasia Virginama	CH S/S T V	FACU+ 5
9 Fragaria Virginina	⚠ S/S T V	FACU 5
10 Veronica officialis	A) S/S T V	FACU- 5
11	H S/S T V	
12	H S/S T V	
13	H S/S T V	
14	H S/S T V	
15	H S/S T V	
16	H S/S T V	
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule		ent of Dominant Species OBL, FACW
Remarks: Spowse leub la	Zes	······································
WETLAND DETERMINATION	, , , , , , , , , , , , , , , , , , , ,	
Hydrophytic Vegetation Present? Yes of No	Hydric Soils Present?	Yes or (ip)
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within	/5
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Iso	lated? Yes or No
Remarks:		Photo Reference Number:

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

			(@) **	Town:	Clayton
Investigator. Pippi	was Tremba	th		County:	Jefferson
1	8 8			Stnte;	NY
Do normal circumstan	ness evice on site?	(Yes) No	Community:	Wet me	a don't
			•	1.1.11.	The second secon
Is the site significant		Yes (No)	Transect/Flag ID:	1 16D-DI)
Is the area a potential	Problem Area?	Yes (No)	Plot ID;	WSP VI	,
ILS			de w		
	(14) Chain	nont sitty a	10.		
1	in jerjaan	10-11 0-1-90	ing		WD MWD(SPD)PD VPD
Subgroup: 4	Mc Uni	agual 15	-	Confirm Mapped Type:	(YE) No
Depth Horizo		Mottle color/s	abundance	Texture, Structure, Other	
0-7	A 10423/2	104K /4,	Few 74"	Silt loan	1
7+	B 104/25/2	104R5/4.	5/8 Common	Clay	
		794	171		
1	i				
Hydric Soil Indicator	The state of the s	Ø.,			24
Histisols	Concretions			Listed on Local Hydric Soils	
Histic Epipedon Sufidic Odor		Content in Surface Layer of S		Listed as Potential for Hydric Other (Explain in Remarks)	c inclusions Only
Reducing Condit		eaking in Sandy Soils ow Chroma color		Aquic Moisture Regime	
reducing Collain	Oicycu or E	DA CHIOMA COIOL	_	Addie Moistate Kegime	
Landscape position:	concave	convex	sloping	Approximate	slone
Zunastenpo prantuoni	flat	The same of the sa	,	ripproximate	31000
	AHA	undulating			
-	ner.	unousung	:		
		unouisun	3		
Remarks:	mu.	unousung	3		a para transcentrações que provincio dos estados 600 de maio terror estados en como de como de consecutor esta
Remarks:	Heat in the second seco	unoutsung	;		
Remarks:	HILL.	unoutsing	;		
Remarks:		unouisung	3		
7.0		unouisung	3		
DROLOGY	ed Data (Describe in Rema		Field Observations		
PROLOGY	ed Data (Describe in Reman	rks) Available	Field Observations Ground Surface	e Inundated #in	ches.
DROLOGY	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tid	rks) Available le Gauge	Field Observations	The state of the s	ches.
DROLOGY	ed Data (Describe in Reman	rks) Available le Gauge	Field Observations Ground Surfac Soil Saturated.	•	
DROLOGY	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tid	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4-5	inches O inches	
DROLOGY Record	ed Data (Describe in Remai No Recorded Data . Stream, Lake or Tid Aerial Photographs	rks) Available le Gauge	Field Observations Ground Surfac Soil Saturated.	•	
DROLOGY Record	ed Data (Describe in Remai No Recorded Data Stream, Lake or Tid Aerial Photographs	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated Depth to Free Water 4-5 Depth to Saturated Soils	inches. O inches	
DROLOGY Record	ed Data (Describe in Remai No Recorded Data Stream, Lake or Tid Aerial Photographs indicators:	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4-5 Depth to Saturated Soils Secondary Indicators (2 or mo	inches O inches	•
DROLOGY Record	ed Data (Describe in Remai No Recorded Data Stream, Lake or Tid Aerial Photographs andicators: Indicators	rks) Available le Gauge	Field Observations Ground Surfac Soil Seturated Depth to Free Water 4-5 Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root	inches. O inches inches.	•
DROLOGY Record	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tid Aerial Photographs adicators: Indicators Inundated Saturated in upper	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained	inches. O inches re required) Channels in upper 12 inches leaves	•
DROLOGY Record	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tid Aerial Photographs indicators: Indicators Inundated Saturated in upper 1 Water Marks	rks) Available le Gauge	Field Observations Ground Surfac Soil Saturated. Depth to Free Water 4-S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv	inches. O inches inches. Te required) Channels in upper 12 inches leaves	•
DROLOGY Record	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tid Aerial Photographs adicators: Indicators Inundated Saturated in upper Water Marks Drift Lines	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv Morphological	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•
DROLOGY Record	ed Data (Describe in Remanus No Recorded Data Stream, Lake or Tide Aerial Photographs Indicators: Indicators: Inundated Saturated in upper Stream Water Marks Drift Lines Sediment Deposits	rks) Available le Gauge	Field Observations Ground Surfac Soil Saturated. Depth to Free Water 4-S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•
DROLOGY Record	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tid Aerial Photographs adicators: Indicators Inundated Saturated in upper Water Marks Drift Lines	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv Morphological	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•
DROLOGY Record Wetland Hydrology I Primary	ed Data (Describe in Remanus No Recorded Data Stream, Lake or Tide Aerial Photographs Indicators: Indicators: Inundated Saturated in upper Stream Water Marks Drift Lines Sediment Deposits	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv Morphological	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•
DROLOGY Record Wetland Hydrology I Primary	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tide Aerial Photographs Indicators: Indicators: Inundated Saturated in upper Stream Marks Drift Lines Sediment Deposits Drainage Patterns in	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv Morphological	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•
DROLOGY Record Wetland Hydrology I Primary	ed Data (Describe in Reman No Recorded Data Stream, Lake or Tide Aerial Photographs Indicators: Indicators: Inundated Saturated in upper Stream Marks Drift Lines Sediment Deposits Drainage Patterns in	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv Morphological	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•
DROLOGY Record Wetland Hydrology I Primary	ed Data (Describe in Remanus No Recorded Data Stream, Lake or Tide Aerial Photographs Indicators: Indicators: Inundated Saturated in upper Stream Water Marks Drift Lines Sediment Deposits	rks) Available le Gauge	Field Observations Ground Surface Soil Saturated. Depth to Free Water 4 - S Depth to Saturated Soils Secondary Indicators (2 or mo Oxidized Root Water-Stained Local Soil Surv Morphological	inches. Te required) Channels in upper 12 inches leaves rey Plant Adaptations	•

Project Number: Applicant:	05030 Horse Creek Windpower					Date:Plot ID Number:	10/29/07 WSP-DD
1 green 2 swan 3 ceed 4 Eutl 5 Sof 6 7 8	nant Plant Species: bulrush np beggars-fick canary grass namia trush	Str. (H)	s/s s/s s/s s/s s/s s/s s/s s/s s/s	T T T	v v v v v v v v v v v v v v v v v v v	Indicator: OBC FACW+ FACOT FAC FACW+	% Cover: 50 10 20 20 55
12 13 14 15		н н н	S/S S/S S/S S/S	T T T	v v v v		
Percent of Dominan	t Species OBL, FACW, FAC LD 90 50/20 Rule A	pplicd?	(Yes) No	j	Percent of Dominant Species Of	BL, FACW_67%
			100-0-	8			
Wetland Hydrology	tion Present? Yes or No	٠,	Sampli	ng Po	oint Wi		ES DIT NO

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

1 42	Town: Clayton
Investigator. Pippin Sessions / Trembat	County: Jefferson
	State: NY
Do accord disconnection and the Company	No Community: Old Reld
	0
Is the site significantly disturbed? Yes	(5
Is the area a potential Problem Area? Yes	Plot ID: USP-DD
Series and Phase (C/A) Chaumon	
Subgroup: Acric Ochrac	Confirm Mapped Type: (Yes)No
Depth Horizon Matrix color	Mottle color/abundance Texture, Structure, Other
0-6 A 104R3/3	None Silt loam
6+ B 104R4/1	104R 5/8, Med. Abundant Sitt Clay
B ////	1012 18, 10189. Houndant
Landscape position: concave	convex sloping Approximate slope:
flet	undulating
Remarks: No hydric Soil i DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches.
Remarks: No hydric Soil i	indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches.
Remarks: No hydric Soil S DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches.
Remarks: No hydric Soil S DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	indicators noted except a few mottles in a clay/si/t B-Horizon Field Observations Ground Surface Inundated inches. Soil Saturated.
Remarks: No hydric Soil DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundatedinches. Depth to Free Waterinches.
Remarks: No hydric Soil S PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundatedinches. Depth to Free Waterinches.
Remarks: No hydric Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated	Indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundatedinches. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches
Remarks: No Lydric Soil Recorded Data (Describe in Remarks) No Recorded Data Available No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches	Indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundatedinches. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves
Remarks: No Lydric Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inche Water Marks	Indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundatedinches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches
Remarks: No Lydric Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inche Water Marks Drift Lines	indicators noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches. Soil Saturated. Depth to Free Water inches. Depth to Saturated Soils inches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations
Remarks: No Lydric Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inche Water Marks	Indicators Noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches. Soil Saturated. Depth to Free Water inches. Depth to Saturated Soils inches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)
Remarks: No Lyde's Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inche Water Marks Doift Lines Sediment Deposits	Indicators Noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches. Soil Saturated. Depth to Free Water inches. Depth to Saturated Soils inches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)
Remarks: No Ludvic Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlar Remarks:	indicators Noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches. Soil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches water-Stained leavesLocal Soil SurveyMorphological Plant AdaptationsOther (Explain in Remarks)
Remarks: No Ludvic Soil Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlar Remarks:	Indicators Noted except a few mottles in a clay/silt B-Horizon Field Observations Ground Surface Inundated inches. Soil Saturated. Depth to Free Water inches. Depth to Saturated Soils inches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)

Project Number: Applicant:	05030 Horse Creek Windpower	-		10/28/07 USP-DD
1 Can 2 Que 3 To 4 5 MO 6 7 8 9 10 11 12 13 14 15 15	ninant Plant Species: neda galdenrod Len Annia luce imothy 0555y/dur oak	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACU FACU FACU	% Cover:
Percent of Domina	ant Species OBL, FACW, FAC ZS96 50/20 Rt	Perc ule Applied? (Ses No	cent of Dominant Species OBL,	facw_
Remarks:				
		Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso		

Flags 1-10

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Do normal circumsta Is the site significant Is the area a potential	unces exist on site?	Mbath Ves No Ves No - moved -	Community:	County: Jel State;	layton fferson .
Do normal circumsta Is the site significant Is the area a potential	unces exist on site?	YES NO - MOWED		State:	fferson .
Is the site significant Is the area a potential	ly disturbed?	(No - moved -			
Is the site significant Is the area a potential	ly disturbed?	(No - moved -		1110+ 111	NY
Is the site significant Is the area a potential	r.	20	Tonaras/Fine ID:	Wet meadow/	PSS
Is the area a potential	r.	~ ~	Transecuring to.	Wetland EE	Y 1
DILS.	X=,		Plot ID:	WSP- EE	

	(CID) Cha	1 0-11 1	/		
Series and Phase: ((16) Crian	mont silty 4.	ay	Drainage Class: WD MWD	Sed ed ved
Subgroup:	enc Och	aqualts		Confirm Mapped Type: (es No	
Depth Horizo		Mottle color/ab	sundance T	exture, Structure, Other	
0-6	A 104R3/2	1	¥ = 1	Silt - Clay loan	
6+	B 104R5/2	10425/4,	Common	Clay loam	
					1
			1		
Hydric Soil Indicate Histisols	Concretio	nns	L	isted on Local Hydric Soils List	
Histic Epipedon	A CONTRACTOR OF THE PARTY OF TH	g. Content in Surface Layer of Sar		isted as Potential for Hydric Inclusions C	Only
Sufidic Odor		Streaking in Sandy Soils		ther (Explain in Remarks)	7775
Reducing Condi		r Low Chroma color		quic Moisture Regime	
				100 100 100	
	fla	at undulating			
Remarks:					

DROLOGY Recon	led Data (Describe in Ren	marks)	Field Observations		
	No Recorded Dat	ta Available	Ground Surface I	nundatedinches.	
-	Stream, Lake or 7		Soil Saturated.		
-	Aerial Photograph		Depth to Free Wateri	inches.	
		1	Depth to Saturated Soils 1-	2 inches.	
Wetland Hydrology					
	y Indicators		Secondary Indicators (2 or more		
	y Indicators Inundated		Oxidized Root Ci	bannels in upper 12 inches	
	y Indicators Inundated Saturated in uppe		Oxidized Root Cl Water-Stained les	bannels in upper 12 inches aves	
	y Indicators Inundated Saturated in uppe Water Marks		Oxidized Root Cl Water-Stained les Local Soil Survey	hannels in upper 12 inches aves	
	y Indicators Inundated Saturated in uppe Water Marks Drift Lines	er 12 inches.	Oxidized Root Cl Water-Stained lea Local Soil Survey Morphological Pl	hannels in upper 12 inchés aves y lant Adaptations	*
	y Indicators Inundated Saturated in uppe Water Marks Drift Lines Sediment Deposit	er 12 inches.	Oxidized Root Cl Water-Stained les Local Soil Survey	hannels in upper 12 inchés aves y lant Adaptations	
	y Indicators Inundated Saturated in uppe Water Marks Drift Lines	er 12 inches.	Oxidized Root Cl Water-Stained lea Local Soil Survey Morphological Pl	hannels in upper 12 inchés aves y lant Adaptations	
	y Indicators Inundated Saturated in uppe Water Marks Drift Lines Sediment Deposit	er 12 inches.	Oxidized Root Cl Water-Stained lea Local Soil Survey Morphological Pl	hannels in upper 12 inchés aves y lant Adaptations	
Primar	y Indicators Inundated Saturated in uppe Water Marks Drift Lines Sediment Deposit	er 12 inches.	Oxidized Root Cl Water-Stained lea Local Soil Survey Morphological Pl	hannels in upper 12 inchés aves y lant Adaptations	THE RESIDENCE OF THE PARTY OF T

Project Number: Applicant:	05030 Horse Creek Windpower				*	Date: Plot ID Numb	100	29/07 15P-EE
1	inant Plant Species: ssy willow d canary grass at top goldenrod ate goldenrod	Si H H H H H H H H H H H H H	S/S S/S	T T T	v v v v v v v v v v v v v v v v v v v	Indicator: FACW FACW FACW) / _	% Cover: 25 70 10 20
Percent of Domina	nt Species OBL, FACW, FAC	Applied?	(v.)	No		Percent of Dominant Spo	cies OBL, FAC	cw/00%
Remarks:				7				
		Is this		g Po	int W	Vesor No Vithin a Wetland? By Isolated? Photo Reference	Yes or No Yes or No Number:	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

. . . 5.8*

1987 COE Wetlands Delineation Manual

Project No:	05030	Applicant: Horse	Creek Windpower		Date:	10/29/07
,			*		Town:	Clayton
Investigator	Pippin	/ Trembeth			County:	Jefferson
mvesugator,	Tipping	/ /remosi			State:	NY
KR4200-000-000-00-00-00-00-00-00-00-00-00-0		***************************************			State.	
Do normal ci	rcumstances ex	ist on site? Yes	No .	Community:	Succession	il Shrub
Is the site sign	nificantly dism	rbed? Yes	No	Transect/Flag ID:	Wetland	EE
Is the area a p	otential Proble	m Area? Yes	No	Plot ID:	USP-GE	
11985 1178000000000000000000						
SOILS Series and Pl Subgroup:	base: (CIE AlM	<i>y</i> ,	nt silty day			ND MWD SPD PD VPD
	Hadran		Mottle color/abundance			
Depth O - 9	Horizon A	Matrix color	None	ì	sture, Structure, Other Silt loan	•
9+	B	1				1
	0	10424/4	None		Silt Cla	4 10am
	1					1
Histic Ep Sufidic C Reducing Landscape pu Remarks:	Odor g Conditions osition:	Organic Streaking Gleyed or Low Checoneave flat 4		Oti Aq sloping	sted as Potential for Hydric her (Explain in Remarks) ruic Moisture Regime Approximate s	
HYDROLOGY	-				2	
III NOLOGI	Recorded Data	(Describe in Remarks)	Field Obs	ervations		
	Village Constitution	No Recorded Data Availab	ole	Ground Surface In	undatedinc	hes.
9		Stream, Lake or Tide Gaug	je	Soil Saturated.		
		Aerial Photographs	Depth to F	no Water in	ches.	
			7.7	aturated Soils	inches.	F
Wetland Hydr	cology Fudia +		Depui to 3	MUIMING DOLLS		
. 11-010-0500-05-05-05-05	Primary Indica		Secondary	Indicators (2 or more r	equired)	
		Inundated	January 1		annels in upper 12 inches	
		Saturated in upper 12 inch	5.	Water-Stained leav		
		Water Marks		Local Soil Survey		
(9)		Drift Lines	(*).	Morphological Pla	nt Adaptations	
		Sediment Deposits		Other (Explain in l		
		Drainage Patterns in Wetla	nd			
Remarks:	No		hydrology not	led.	*	
:\edr office file	s\forms\Da	ta Form Routine We	etland Determination.xls	146	it g	* 0 * 0

Project Number: 05030 Applicant: Horse Creek Windpower		Date: Plot ID Number:	10/29/07 USP-EE	1 2
Dominant Plant Species: 1	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACU NL FACU FACU FACU FACU NL FACU	% Cover: 30 30 30 30 20 20	
Percent of Dominant Species OBL, FACW, FAC 14 % 50/20 Rule Remarks:	7	nt of Dominant Species O	bl, facw_	
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola	***************************************	es or No UA	

Environmental Design & Research, P.C.

DATA FORM . 217 Montgomery Street, Suite 1000 274 North Goodman Street ... ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual Applicant Horse Creek Windpower Date: Project No: Town: Clayton Jefferson County: State Yes No Do normal circumstances exist on site? Community: Wetland FF Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS Series and Phase: (CIB) Chaumont Silty clay WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Yos No Mottle color/abundance Texture, Structure, Other Horizon Depth 0-6 Hydric Soll Indicators: Histisols Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Aquic Moisture Regime Gleyed or Low Chroma color Landscape position: Approximate slope: concave sloping Remarks: HYDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water 1 - 2 inches. Depth to Saturated Soils O Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches ✓ Water-Stained leaves Saturated in upper 12 inches. Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: Inundated in vehicle ruts >6."

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower	* 1 x = 1	Date: 10/ Plot ID Number: W	29/07 SP-FF
Dominant Plant Species: 1 green bulrush 2 reld canary grass 3 Euthania 4 5 6 Shrub Scrub 7 pussy willow 8 willow herb 9 Sedges 10 green bulrush 11 12 13 14	Stratum: (circle cocc) (H) S/S T V (H) S/S T V	Indicator: OBL FACW DBL FACW/DBL OBL	% Cover: 25 60 15
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule A	(1)	ent of Dominant Species OBL, FA	cwfDD 20
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso		

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Investigator. Pippin / Tremb		County: State:	Jefferson NY
Do normal circumstances exist on site?	Yes)No Com	munity: NDF	
Is the site significantly disturbed?	Yes (No) Transect/T		FF
Is the area a potential Problem Area?	Yee No 1	Plot ID: USP-FF	
ıs			
Series and Phase; (CIB) Chaum Subgroup: <u>Amic Ochra</u>	ont silty clay	Drainage Class: W	VD MWD SEB PD VPI
Subornani Amic Ochma	analku		No No
			<i>8</i>
Depth Horizon Matrix color 0-7 A 1016 3/3	Mottle color/abundance	Texture, Structure, Other SiH 100	em
	None	1	
7+ B 104294	None	Sitt-cla	1 loans
			14
Sufidic Odor Organic Streak Reducing Conditions Gleyed or Low Landscape position: concave flat	convex	Listed as Potential for Hydric Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate si	iope:
Sufidic OdorOrgunic StreakReducing ConditionsGleyed or Low Landscape position:	chroma color	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl	lope:
Suffice OdorOrgunic StreakReducing ConditionsGleyed or Low Landscape position:	convex undulating value of the convex of the	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl	lope:
Suffice OdorOrgunic StreakReducing ConditionsGleyed or Low	convex undulating value of the field Observations	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl	
Suffdic OdorOrgunic Streak Reducing ConditionsGleyed or Low Landscape position:	convex undulating / soil indicators note. Field Observations aliable Ground	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl	
Suffdic OdorOrgunic StreakReducing ConditionsGleyed or Low Landscape position:	convex undulating / soil indicators note. Field Observations aliable Ground	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl	
Suffdic OdorOrgunic Streak Reducing ConditionsGleyed or Low Landscape position:	Chroma color Convex undulating Soil indicators note Field Observations aliable Ground Souge Soil Sa	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate si Surface inundated inch turated inches.	
Suffdic OdorOrgunic Streak Reducing ConditionsGleyed or Low Landscape position:	convex undulating V Soil indicators note indicators note field Observations aliable Ground Gauge Depth to Free Water_	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate si Surface inundated inch turated inches.	
Sufidic Odor Organic Streak Reducing Conditions Gleyed or Low Landscape position: concave flat Remarks: No Maric Recorded Data (Describe in Remarks) No Recorded Data Ava Stream, Lake or Tide Concave Acrial Photographs Wetland Hydrology Indicators: Primary Indicators	Chroma color Convex undulating Soil indicators note Ground Sauge Depth to Free Water_ Depth to Saturated Soi Secondary Indicators (Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl d . U Surface Inundated inch turated. inches. ils inches. 2 or more required)	
Sufidic OdorOrgunic Streak	Chroma color Convex undulating Soil indicators note Tield Observations Aliable Ground Soil Sail Depth to Free Water Depth to Saturated Soil Secondary Indicators (Oxidize	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl d . U Surface Inundated inch turated inches. Its inches. 2 or more required) ed Root Channels in upper 12 inches	
Sufidic OdorOrganic StreakReducing ConditionsGleyed or Low Landscape position:	Field Observations aliable Ground Soil indicators note Field Observations Country Depth to Free Water Depth to Saturated Soil Secondary Indicators (Oxidize Water-S	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl d . U Surface Inundated inch turated inches. Its inches. 2 or more required) ed Root Channels in upper 12 inches Stained leaves	
Sufidic OdorOrganic StreakReducing Conditions	Field Observations aliable Ground Soil indicators note Field Observations Ground Soil Salurated Soil Secondary Indicators (Oxidize Water-S Local S	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl d . Surface Inundated incl turated inches. ls inches. 2 or more required) ed Root Channels in upper 12 inches Stained leaves foil Survey	
Sufidic OdorOrgunic StreakReducing ConditionsGleyed or Low Landscape position:	convex undulating	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate si Surface Inundated incl turated. inches. ils inches. 2 or more required) ed Root Channels in upper 12 inches Stained leaves foil Survey plogical Plant Adaptations	
Sufidic OdorOrganic StreakReducing Conditions	convex undulating	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate sl d . Surface Inundated incl turated inches. ls inches. 2 or more required) ed Root Channels in upper 12 inches Stained leaves foil Survey	
Sufidic Odor	convex undulating	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate si Surface Inundated incl turated. inches. ils inches. 2 or more required) ed Root Channels in upper 12 inches Stained leaves foil Survey plogical Plant Adaptations	

p (8)							
Project Number:	05030 Horse Creek Windpower		¥	r ·	Date: Plot ID Number;	10/29/07 USP- FF	-
			*				
VEGETATION				Th.			
1 Shag	back hickory	н	tratum: (circle of	v	Indicator: FACU -	% Cover:	_
1 1	n snekle Hark hickory	H H/	S/S T S/S T	v v	FACU-	Z0 50	_
5	scnes	н	S/S T	V	FACU	50	
7_ レ	ood tern	H	S/S T	v v	FACU	25	-
8 <u>\</u> 8	idago (burned out)	H) s/s T s/s T	v v		25	-
		н	S/S T	v v			-
12	-	н	S/S T	v			-
		н	S/S T	v		4	_
		н	S/S T	V V	4		- 1
Percent of Domina	nt Species OBL, FACW, FAC 6	: Applied?	Ø no		rcent of Dominant Species (OBL, FACW_	
Remarks:							
-							
WETLAND DETER		** **		1020			
Hydrophytic Vegeta Wetland Hydrology	Present? Yes or No		c Soils Prese		Yes of No.	Yes of No	
	tivity to Off-site Wetlands? Yes on No		Wetland Pot			Yes or No W/A	
							1

Observer: Name: Piggin/ Trambath	Project Information: Name: Hove Creek
Weather: 40's, overcast	Number: 05030 Date: 1029/07
Stream Name: IC-GG	
Stream Location (nearest road, structure, etc.): Interconnect neer Turbine 25; South of	
Adjacent Community: Spruce Plantation: Active)	ty (Hay)
Stream Gradient - gentle X	•
- moderate	
- steep	
C1-10 F1	
Bank Width: 8-10 ft.	
Stream Width: 1-2 ft.	
Water Depth: 1-2 in des	
Substrate: - Bed Rock	
- Boulder	
- Cobble	
- Gravel	
- Sand	
- Boulder - Cobble - Gravel - Sand - Silt - Clay	
- Clay V	
nstream Cover: - Undercut bank	
- Overhanging vegetation	
- Logs/woody debris	
- Deep pools	
- Other	
	· · · · · · · · · · · · · · · · · · ·
low: - Permanent	
- Intermittent	
hoto # lag #'s	
	. 0 . 0
additional Comments: Intermittent channel colle	cting runoff from Ay hields dress
through 24 inch corregated steel culvert	at existing farm lane prossing
to soruce plantation and successional	shrubland dommunities.
Soils = (GV) GUFFIN Clay, PO/VF	o, Mollic Haplaguepts
Clayton Twoshp, Jefferson	Cty
0	

Observer: Name: Pippin / Tembath	Project Informat	
Weather: Cloudy windy (old	Number: 85630	
Stream Name: un nuned		
Strong Landian (assess and structure state)		
Stream Location (nearest road, structure, etc.): Firkey Auto Sales on Et. 12		v 90
Adjacent Community: Ag field . Old Field		_
Stream Gradient - gentle X		
- moderate		V 200
- steep		7 4
Bank Width: 8-16		
Stream Width: <- '		
Water Depth: 3-5 Il		
Substrate: - Bed Rock	**	
- Boulder - Cobble - Gravel - Sand - Silt - Clay		
- Cobble		
- Gravel		
- Sand		
- Silt X		
- Clay X		
	2	Vi. *3
nstream Cover: - Undercut bank		
- Overhanging vegetation		
- Logs/woody debris		*
- Deep pools	and to	u.i
- Other charpletely legetated - heed (chang gloss of	(141)
, , ,		
Iow: - Permanent		
- Intermittent X	* "	
2 4 1 1 1 100		
hoto # 2 photos laken		
lag #'s 1[HH 1 -]	2	
additional Comments: 15 termittent change flowing	no between an	old field/meadow
	de de delle	die inclasmi
	channel Che	1 (1)
	chausely (He	NU PIN PERM
I disturbed from As inperations.	a a a a a a a a a a a a a a a a a a a	
Soils = (GV) Guffin clay, PP/VPD.	Mollic Hapla	anepto
01 1 4	-1/	, ,
Clayton Wishp, Jefferson Lt	nkearch	

274 North Goodman Street Rochester, New York 14607

PATA FORM
ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual DATA FORM ..

Town	Project No: 05030 Appl	licant: Horse Creek Wind	power	Date:	10/30/07
Do normal circumstances exist on nite? Do normal circumstances exist on nite? Is the site significantly disturbed? Yee (20) Transact/Fing ID: WE Hand III Distinge Class: WD MWD (SR) PD VPD Subgroup: Actic College of Local Matrix color O-7 A 1044 12 1048 1 10			3	Town:	Clayton
Do soumal circumstances exist on size? Is the size significantly disturbed? Is the area a potential Problem Area? Ver So Flot ID: We Shad I I II: Subgroup: Action Coloration Marrix color Depth Horizon Marrix color O-7 A 10943 1074 1074 115 18, Common Silty Clay Texture, Structure, Other Silt Clay Ioam Rydric Soil Indicators: Histicle Histicle Epipedon Juliac Epipedon Juliac Epipedon Juliac Epipedon Juliac Epipedon Juliac Epipedon Juliac Conceivious Juliac Conceivious Juliac Conceivios Juliac Conceivios Juliac Conceivios Juliac Conceivios Jundulation Reducing Conditions Concrete in Remarks) No Recorded Data (Describe in Remarks) No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Title Gauge Acrial Protographs Concrete in Remarks Primary Indicators: Pr	Investigator. Pippin/	embath		County:	Jefferson
Is the size significantly disturbed? Is the sare a potential Problem Area? Yes (30) Chaumand Silfy Clay Drainage Class: We MWD (SP) FD VPD Confirm Mapped Type: (3) No Confirm Mapped Type: (4) No Confirm Mapped Type: (5) No Texture, Structure, Other Silf Clay Ioan Texture, Structure, Other Silf Clay Ioan Rydric Soil Indicators: Histoicle Histoicle Histoicle Histoicle Histoicle Histoicle Sudifice Odor Organic Streaking in Sandy Soils Olityed or Low Chroma color Convers One Convers (and Indicators) Aquic Moiture Regime Listed as Potential for Hydric Soils List Listed as Potential for Hydric Soil List Listed as Potential for Hydric Holousions Chaly Other (Explain in Remarks) No Recorded Data (Describe in Remarks) Suram, Lake or Tide Gauge Acrial Protographs Field Observations Ground Surface Inundated Soil Saturated. Depth to Five Water Inches. Depth to Servations (2 or more required) Water Marks Drift List Sediment Deposits Sediment Deposits Sediment Deposits Soil Saturated. Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks)				State:	NY
Is the site significantly disturbed? Is the area a potential Problem Area? Ves (16) Chaumand Silly Clay Desirase Class: WD MWD (SP) PD VPD Desirase Class: WD MWD (SP) PD VPD Confirm Mapped Type: On Texture, Structure, Other Totture, Structure, Other Tot	Do normal circumstances exist on site?	(Ye) No	. Community: _	PSS	*
Series and Phase: (CB) Chammant Silty Clay Drainage Class: WD MWD (StD) PD VPD Subgroup: Actic Cutaquufs Confirm Mapped Type: (A) No Depth Horizon Matrix color Motile color/abendance 0-7 A 1041 1041 1041 Mod. Absurd Silt Clay Ioan Texture, Structure, Other Silt Clay Ioan Review Sull Indicators: Histisele Jispedon Higher Congress Treating in Sandy Soils Jistic Depth Confirm Mapped Type: (A) No Confirm Mapped Type:	In the site cionificantly disturbed?		Tenecost/Flag ID:	1. De Hand	TI
Series and Phase: (CIB) Chaumont Silty Clay Subgroup: Actic Octugaguats Depth Horizon Matrix color Octugaguats Depth Horizon Matrix color Octugaguats Texture, Structure, Other City Mod. About Silt Clay foam Texture, Structure, Other Silt Clay foam Listed on Local Hydric Soils List Listed on Loca			_		
Series and Phase: (CB) Chaufmort Silty Olay Subgroup: Actic Octoraguasts Depth Horizon Matric color Depth Horizon Matric Color Matric Study Soils Diff Lines Morphological Plant Adaptations Depth Horizon Matric Color Matric Study Soils Depth Horizon Matric Soils List Depth to Study Soils Depth Horizon Matric Soils List Depth to Study Soils Depth to S	Is the area a potential Problem Area?	Yes (No)	Plot ID: _	0021. 7-	
Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Other O-7 A 10 yll 3/z 10 yll 5/L Mod. Abound Silt Clay loam.		12 9 L. V.			
Depth	Series and Phase: (C/B) (V	naumont S.	Ilty clay	Drainage Class:	WD MWD SPD PD VPD
Depth	Subgroup: Acric Och	raqualfs		Confirm Mapped Type:	No No
DROLOGY Recorded Data (Describe in Remarks) No Recorded Data (Describe in Remarks) Acrial Photographs		0			
Bydric Soil Indicators: Listed on Local Hydric Soils List		ALCOHOLDING		The state of the s	lay loam
Bydric Soil Indicators: Listed on Local Hydric Soils List Local Hydric Hydric Local Hydric Hydric Hydric Local Hydric Hydric Hydric Hydric Hydric Hydric Hydric Hydric H		4	-1'1 -1 0		,/
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Suffice Odor Organic Streaking in Sandy Soils Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Concave Convex Sloping Approximate slope: Concave Convex Sloping Approximate slope:	77 0 1672	12 1076	16, 78, Common	Clay	lam
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Suffice Odor Organic Streaking in Sandy Soils Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Concave Convex Sloping Approximate slope: Concave Convex Sloping Approximate slope:				1	
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Suffice Odor Organic Streaking in Sandy Soils Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Concave Convex Sloping Approximate slope: Int Undulating Ground Surface Inundated Inches. Prinary Indicators: Wetland Hydrology Indicators: Prinary Indicators: Prinary Indicators: Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks: Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Other (Explain in Remarks) Listed on Local Hydric Soils List Listed on Local Hydric Soils Local Hydric Soils Listed on Local Hydric Soils Local Hydric Soils List Listed on Local Hydric	Wardele Call Indicators	1			
Histic Epipedon	AND THE PROPERTY OF THE PROPER	retions	L	isted on Local Hydric Soil:	List
Reducing Conditions Gleyed or Low Chroma color					
Remarks: Concave					
Remarks: Proportion Propor				dest triangual residence	
Remarks: Proportion Propor	Landscape position:	neave e	onvex sloping	Annroximate	slone:
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Actial Photographs Depth to Free Waterinches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators: Socondary Indicators (2 or more required) Inumdated Inumdated Solutated in upper 12 inches. Water Marks Drift Lines Sedimem Deposits Drainage Patterns in Wetland Remarks:				прополиси	
POROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Actrial Photographs Depth to Free Waterinches. Depth to Saturated Soils/			Y		
POROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Actrial Photographs Depth to Free Waterinches. Depth to Saturated Soils/			100 100 100 100 100 100 100 100 100 100		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soils 4-5_inches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Inumdated Saturated in upper 12 inches. Water Marks Drift Lines Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:	Remarks:		¢		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soils 4-5_inches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Inumdated Saturated in upper 12 inches. Water Marks Drift Lines Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:					
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Inumdated Saturated in upper 12 inches. Water Marks Drift Lines Drainage Patterns in Wetland Remarks: Field Observations Ground Surface Inundated Soil Saturated. Depth to Free Waterinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)					
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soils 4-5_inches. Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sedimem Deposits Drainage Patterns in Wetland Remarks: Field Observations Ground Surface Inundated Soil Saturated. Depth to Free Waterinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)					
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soils 4-5_inches. Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sedimem Deposits Drainage Patterns in Wetland Remarks: Field Observations Ground Surface Inundated Soil Saturated. Depth to Free Waterinches. Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	DROLOGY				
Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soils		Remarks)	Field Observations		
Depth to Free Waterinches. Depth to Saturated Soils				nundatedit	ches.
Depth to Free Waterinches. Depth to Saturated Soils			Soil Saturated.		
Depth to Saturated Soils 4-5 inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Water Marks Local Soil Survey Morphological Plant Adaptations Sediment Deposits Drainage Patterns in Wetland Depth to Saturated Soils 4-5 inches. Secondary Indicators (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Acrial Photog	graphs			
Wetland Hydrology Indicators: Primary Indicators Inumdated Saturated in upper 12 inches. Water Marks Drift Lines Sedimem Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) Remarks:					
Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Under Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)			Depth to Saturated Soils 4-	inches.	
Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Under Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	Wetland Hydrology Indicators:				
Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)			Secondary Indicators (2 or more	required)	
Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	NAME OF TAXABLE PARTY O			OCTOR ALL CALLED	
Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:	7-	apper 12 inches.		2 10/20	
Sedimem Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:		5757:	Local Soil Survey	,	
Sedimem Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:	Drift Lines	TI &	Morphological Pl	ant Adaptations	88
Drainage Patterns in Wetland Remarks:	Sediment Der	posits			
Remarks: Hummocky					
Hummocky		***************************************			****
nummocky	Remarks:				
	Mummocky				
	1				
	dr office files\forms\Data Form R	outine Wetland Deter	mination.xls	3	- 1 1 348 · · · · ·

	5030 Forse Creek Windpower	•	Date: Plot ID Number:	10/30/07 WSP-II
1 Silky 2 Willow 3 4 mead 5 wool 6 green 7 lat 8 small 9 10 11 12 13 14	a Plant Species: dogwood white aster	H S/S T V	Indicator: FAW+ FACW+ FACW+ FACW+ OBC FACW FAC	% Cover. 75 20 20 20 30 10
	pecies OBL, FACW, FAC	ule Applied? (Yes) No	cent of Dominant Species Of	BL, FACW AND TO
Remarks:				
WETLAND DETERMIT Hydrophytic Vegetation Wetland Hydrology Pre: Hydrologic Connectivit Remarks:	Present? Yes or No	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso		sor No

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

05030 Applicant: Horse Creek Windpower 10/30/07 Project No: Date: Clayton Town: / Trembath Investigator: Pippin/ County: Jefferson NY State: (Yes) No Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transect/Flag ID: USP-II Is the area a potential Problem Area? Piot ID: SOILS Chaumont silty clay WD MWD/SPE PD VPD Drainage Class: Confirm Mapped Type: Mottle color/abundance Texture, Structure, Other Depth Horizon Matrix color 1042 3/3 0-6 Nune 104R4/2 Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Concretions Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Other (Explain in Remarks) Organic Streaking in Sandy Soils Reducing Conditions _Gleyed or Low Chroma color ____ Aquic Moisture Regime Landscape position: Approximate slope: sloping concave convex undulating Remarks: No Hydric Soil indicators noted. HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated_ Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water Depth to Saturated Soils inches. Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) __ Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Morphological Plant Adaptations **Drift Lines** Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks: wetland hydrology noted.

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower		Date:	0/30/07 USP-II
Dominant Plant Species: 1 White Spruce 2 buckthorn 3 4 gray dogwood 5 Canada goldenrod 7 fescues 8 9 10 11 12 13 14	Stratum: (circle coce) H	Indicator: FACU FACU FACU	% Cover. 60 20 - 90 - 40 - 40
Percent of Dominant Species OBL, FACW, FAC 9	Pero de Applied? (Yes) No	cent of Dominant Species OBL,	facw_D_
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No Wetland Hydrology Present? Yes of No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso		- / . \

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

	nt: Horse Creek Windpower	*	Date: Town:	Oct 36, 2007 Clayton
Investigator. Pippin/Stabbias Teres	bell		County: State:	Jefferson NY
Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area?	Yes No Ag. disturb Yes No	Ce Transect/Flag ID:	PS/Wot Med TJ - 1-5 JJ-2 WS	5
Series and Phase (GV) Guff Subgroup: Mollic Ha Depth Horizon Matrix color 0-16+ A 107R4	n Clay plaquests Mottle color/abu 1048 5/4	Cor	ainage Class: firm Mapped Type: age, Structure, Other	WD MWD SPR PD VPD
Sufidic OdorOrganicReducing ConditionsGleyed of Landscape position: conca f Remarks:	g. Content in Surface Layer of Sand Streaking in Sandy Soils or Low Chroma color	ly Soils Liste Other Aqui	d on Local Hydric Soil d as Potential for Hydric (Explain in Remarks) t Moisture Regime Approximate	ic Inclusions Only
PDROLOGY Recorded Data (Describe in Re No Recorded D Stream, Lake or Aerial Photogra	sta Available Tide Gauge phs D	ield Observations ND Ground Surface Inum NO Soil Saturated. epth to Free Water 711 inchepth to Saturated Soils 710	es.	nches.
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upp Water Marks Drift Lines Sediment Depos X Drainage Pattern	Ser 12 inches. fits	Cxidized Root Chan Cxidized Root Chan Water-Stained leaves Local Soil Survey Morphological Plant Other (Explain in Re	uired) nels in upper 12 inche Adaptations	s
Remarks: Hwwwark-y edr office files\forms\Data Form Rol	501/5 mois	•	\$544.114.FP44	

Project Number: Applicant:	05030 Horse Creek Windpower		Date: 10 Plot ID Number: 14	-30-07)SP JJ-Z
1 America 2 3 5 my 4 5 m/cx 5 6 Mean 7 Do 8 Sol 9 Rec 10 11 12 13 14	inant Plant Species: an. Elm Dogwood sp down sweet we vervare indano sp. pl (anan grass)	H S/S T V	Indicator. FACW- FAC FACW/OBL FACW+ FACW+ FACW+	% Cover: 5 10 27 36 5 10 48
Percent of Domina	nt Species OBL, FACW, FAC DO 76	Per la Applied? Yes No	creent of Dominant Species OBL,	,facw_ <i>B07</i> 5
Remarks:				
	~3	Hydric Soils Present? Is this Sampling Point With Is this Wetland Potentially I		or No

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date:	10-30-07
	Town:	Clayton
Investigator. Pippinte Trembash	County:	Jefferson
	State:	NY
Do normal circumstances exist on site? Yes No Community:_		o Shab
Is the site significantly disturbed? Yes No Transect/Flag ID:	221-22	
Is the area a potential Problem Area? Yes No Plot ID:	ribe 77-5	<u> </u>
Series and Phase: (GV) Guffin Clay		
Series and Phase: (6V) Guffin Clay	Drainage Class:	WD MWD SPO PD VPD
Subgroup: 1/10416 Haplaguepts	Confirm Mapped Type:	(Ye) No
	exture, Structure, Other	
0-14 A 10983/2 NO	silf chy.	
0 0 11 1016/6 20	- According 19	
	3	
	* * * *	
w.v.o.nv.e.		
Hydric Soil Indicators: Histisols Concretions	isted on Local Hydric Soils	List
TO THE PROPERTY OF THE PROPERT	isted as Potential for Hydric	
	ther (Explain in Remarks)	
Reducing Conditions & Gleyed or Low Chroma color A	quic Moisture Regime	
Landscape position: concave convex sloping	Approximate	slone:
flat \triangle undulating	трричана	alup.
Remarks: This sail has hydric characteri	stics had	not as
defined as soil sample within a	the wetled	ζ.
HYDROLOGY		6
No Recorded Data Available Ground Surface I Stream, Lake or Tide Gauge Soil Saturated.	nundatedin	ches.
Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs		
	nches.	1
Depth to Saturated Soils	inches.	
Wetland Hydrology Indicators:		
Primary Indicators Secondary Indicators (2 or more	required)	
	hannels in upper 12 inches	
Saturated in upper 12 inches. Water-Stained les		
Water MarksLocal Soil SurveyDrift Lines Morphological Pi		*
Drainage Patterns in Wetland		
Remarks:	ge	
No hydrology indicators obs	erved:	
1 1 \		× 1
s:\edr office files\forms\Data Form Routine Wetland Determination.xls		

15-30-87 05030 Project Number: Date: Plot ID Number: USP@ J1-2 Horse Creek Windpower Applicant: VEGETATION Dominant Plant Species: Stratum: (circle one) Indicator. % Cover. Elm Merica S/S (T White spince 10 30 Solidano 20 FACU 40 S/S SIS H S/S H S/S 13 Percent of Dominant Species OBL, FACW, FAC 47 Percent of Dominant Species OBL, FACW_ 50/20 Rule Applied? (Yes) No Remarks; Doninated by Not hydrophytic vegetation. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No. Hydric Soils Present? Yes or No Wetland Hydrology Present? Yes or No Is this Sampling Point Within a Wetland? Yes or No Hydrologic Connectivity to Off-site Wetlands? Is this Wetland Potentially Isolated? Yes or No Remarks: Photo Reference Number: wetland. fola

s. ledr office files forms Data Form Routine Wetland Delineation.xls

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinestion Manual

	Date: 10/30/07
A 2 2	Town: Clayton
Investigator. Pippin / 718mblh	County: Jefferson
	State: NY
Do normal circumstances exist on site? Yes No Con	minumity. PEN West meadow
Is the site significantly disturbed? (Fes) No - Ag of exaling Transect	vFlag ID: 35 1-55
Is the area a potential Problem Area? Yes No	Plot ID: 155P @ 31-39
Date and a potential recording rates.	2014 50 20 21
OILS CO. CC.	
Series and Phase: (6V) Guthn Clay	Drainage Class: WD MWD SPD PD VPD
Series and Phase: (GV) GUFFIN Clay Subgroup: MOIlic Haplaquepts	Confirm Mapped Type: (Y) No
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
D-1+ A 101841 -	silt day
Eydric Soil Indicators:	
HistisolsConcretions	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
	Aquic Moisture Regime
Landscape position: concave X convex	sloping Approximate slope:
flat undulating	
Remarks: Wet Suturnled Soils.	
Remarks: Wet Summiel Soils.	
Remarks: Wet Summaled Soils. **DROLOGY** Y Recorded Data (Describe in Remarks) Field Observations	222
Remarks: Wet Submidel Soils. DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available No Recorded Data Available	nd Surface Inundated inches.
Remarks: Wet Submidel Soils. DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Field Observations Soil S	nd Surface Inundated inches. Saturated.
Remarks: Wet Submide Soi(S) DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water	nd Surface Inundated inches. Saturated.
Remarks: Net Submidel Soils. DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Saturated So	nd Surface Inundated inches. Saturated.
Remarks: Net Submidel Soils. DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Saturated So	nd Surface Inundatedinches. Saturated. 16 inches. soils L inches.
Remarks: Wet Surveyed Soils. PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Saturated So Wetland Hydrology Indicators: Primary Indicators Secondary Indicators	nd Surface Inundatedinches. Saturated. 16 inches. soils 2 inches. s (2 or more required)
Remarks:	and Surface Inundatedinches. Saturated. 16 inches. soils 2 inches. s (2 or more required) ized Root Channels in upper 12 inches
Remarks: Wet Shimmed Soi So	nd Surface Inundatedinches. Saturated. 16inches. ioilsinches. s (2 or more required) ized Root Channels in upper 12 inches r-Stained leaves
Remarks: No Recorded Data (Describe in Remarks) Field Observations	nd Surface Inundatedinches. Saturated. 16inches. soils
Remarks: No Recorded Data (Describe in Remarks) Field Observations	and Surface Inundatedinches. Saturated. 16inches. ioils
Remarks: No Recorded Data (Describe in Remarks) Field Observations	nd Surface Inundated inches. Saturated. 16 inches. soils 2 inches. s (2 or more required) ized Root Channels in upper 12 inches r-Stained leaves Soil Survey hological Plant Adaptations
Remarks: Deliver Sulver Soi	nd Surface Inundated inches. Saturated. 16 inches. ioils 2 inches. s (2 or more required) ized Root Channels in upper 12 inches r-Stained leaves Soil Survey hological Plant Adaptations
Remarks: Delication Soi	nd Surface Inundated inches. Saturated. 16 inches. ioils 2 inches. s (2 or more required) ized Root Channels in upper 12 inches r-Stained leaves Soil Survey hological Plant Adaptations
Remarks: Details Soils	nd Surface Inundated inches. Saturated. 16 inches. ioils 2 inches. s (2 or more required) ized Root Channels in upper 12 inches r-Stained leaves Soil Survey hological Plant Adaptations

Project Number:	05030				Date;	10-30/07
Applicant:	Horse Creek Windpower				35,050,050	USE@ 11-79
- Apparent				-		
VEGETATION						
Domi	nant Plant Species:	Str	ztum; (circle	one)	Indicator.	% Cover:
1 Cim	Dogwood	н	(S/S) T	٠ ٧	FAC	5
	,	H	S/S T	v		
3 56/4	Lugo sp.	B	S/S T	·v	#A	30
	41	H	S/S T	v	DBL	Zd
	Carry Giass	H	S/S T	v	FACW+	18
6	1 9	н	S/S T	V		* * * * * * * * * * * * * * * * * * *
7		н	S/S T	v		
		н	S/S T	v		
9		H	S/S T	Y	2	
10		H	S/S T	V	1	
		н	S/S T	v		
12		н	S/S T	v	9	
13		н	S/S T	v		
14		H	S/S T	v		
15		н	S/S T	v		
		н	S/S T	v		
	*				*************************************	***************************************
Percent of Dominan	It Species OBL, FACW, FAC 1007	9		I	Percent of Dominant Specie	s OBL, FACW 33%
ja .		c Applied?	Yes No)		
		*****************		************	. The T. Cumpanisment of the Companies () Andrews ()	
Remarks:					*	
				8		
			** ***			
WETLAND DETER		****			(Yes or No	
	tion Present? Yes or No Present? Yes or No		Soils Prese		\circ	(Yeor No
	ivity to Off-site Wetlands? (Yes or No		Sampung r Wetland Po		thin a Wetland?	Yes of NO
Remarks:			WCUBIKI PC	Acouany	Photo Reference Nu	
W	allul oven associate	, wi	12,	Chen,	nd flowing	four
	a Stream Cond.		40			
1	r success fond.					

Stream Inventory



Observer: Name: Pippa Trembally	Project Infor	mation:	ч
Weather: Sundy/calm/ niv	Number: 650		
Stream Name: un name & Ag. Manel			
Stream Location (nearest road, structure, etc.): Fred matthews Property New Turbing 43	3		
Adjacent Community: Ag field al uplat for		ueb.	
Stream Gradient - gentle 🔀 - moderate steep			
Bank Width: 10-12			¥
Stream Width: 3-51			
Water Depth: 5-61			
Substrate: - Bed Rock - Boulder - Cobble - Gravel - Sand - Silt - Clay Veletatel			
- Clay Veletates			
- Overhanging vegetation - Logs/woody debris - Deep pools - Other			
Flow: - Permanent Cyleneral			
Photo #			
Additional Comments: An Ephemeral Chance d'Aurhel by Aq. operations, of Tongonal wellule	1 + had h	us been Juisdictional	
soils= (6V) Gulfin Clay, PO/VPO, Mo clayton Twishy, Jefferson City	Ilic hapla	guests	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/30/07
	Town: Clayton
Investigator. Pippin / Trembath	County: Jefferson
	State: NY
Do normal circumstances exist on site? Yes No Co	ommunity: Wet meadow
	Latte 1 KK
Is the site significantly disturbed? Yes (No) Transec	evFlag ID: wetland KK
Is the area a potential Problem Area? Yes No	Plot ID: WSP-14K
SOILS COLO COLO COLO COLO COLO COLO COLO CO	
Series and Phase: (GV) Guffin Clay	Drainage Class: WD MWD SPD PD VPD
Subgroup: MONIC Haplaguepts	Confirm Mapped Type: Ve No
Depth Horizon Matrix color Mottle color/abundance 0-11+ A 104k ³ /2 104k ⁵ /6. Common	Texture, Structure, Other
0-16+ A 104x3/2 104x5/6, Common	Sitt-Clay loam
Hydric Soil Indicators:	
Histisols Concretions	Listed on Local Hydric Soils List
Histic Epipedon High Org. Content in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
Sulidic Odor Organic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing Conditions Gleyed or Low Chroma color	Aquic Moisture Regime
——————————————————————————————————————	
Landscape position: concave convex	
Landscape position: concave convex undulating X	
flat undulating X	
flat undulating X	
flat undulating X	
flat undulating X	
Remarks:	slopingApproximate slope:
Remarks: PDROLOGY Recorded Data (Describe in Remarks) Field Observations	slopingApproximate slope:
Remarks: TOROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Grou	slopingApproximate slope: and Surface Inundatedinches.
Remarks: DROLOGY	slopingApproximate slope: and Surface Inundatedinches. Saturated.
Remarks: Comparison	slopingApproximate slope: and Surface Inundatedinches. Saturated.
Remarks: COROLOGY	slopingApproximate slope: and Surface Inundatedinches. Saturated. 5-6 inches.
Remarks: POROLOGY	slopingApproximate slope: and Surface Inundatedinches. Saturated. 5-6 inches. Soils inches.
Remarks: Remarks:	slopingApproximate slope: and Surface Inundatedinches. Saturated. s 5 - 6 inches. Soils inches. s (2 or more required)
Remarks: Primary Indicators Primary Indicators	and Surface Inundatedinches. Saturated. SoilsOinches. Is (2 or more required) lized Root Channels in upper 12 inches
Remarks: Property	and Surface Inundatedinches. Saturated. SoilsOinches. SoilsOinches. Sized Root Channels in upper 12 inches str-Stzined leaves
Remarks: Property	and Surface Inundatedinches. Saturated. SoilsOinches. SoilsOinches. Is (2 or more required) lized Root Channels in upper 12 inches er-Stained leaves It Soil Survey
Remarks: POROLOGY	and Surface Inundatedinches. Saturated. SoilsOinches.
Remarks: Property Recorded Data (Describe in Remarks) Field Observations	and Surface Inundatedinches. Saturated. SoilsOinches.
Remarks: POROLOGY	and Surface Inundatedinches. Saturated. SoilsOinches. SoilsOinches. SoilsOinches. SoilsOinches. SoilsOinches. Soilsinches. SoilsOinches. SoilsOinches. SoilsOinches. Soil Survey phological Plant Adaptations
Remarks: POROLOGY	and Surface Inundatedinches. Saturated. SoilsOinches. SoilsOinches.
Remarks: POROLOGY	and Surface Inundatedinches. Saturated. SoilsOinches. SoilsOinches.
Remarks: Property Recorded Data (Describe in Remarks) Field Observations	and Surface Inundatedinches. Saturated. SoilsOinches.

Project Number: 05030 Applicant: Horse Creek Windpower		Date: /0/30 Plot ID Number: WSP	107 - KK
Dominant Plant Species: 1	Stratum: (circle occ) H S/S T V	FACW FAC	Cover: 50 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0
Percent of Dominant Species OBL, FACW, FAC	_	nt of Dominant Species OBL, FACW	23%
Remarks: WETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a list this Wetland Potentially Isol		

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Windpower	Date: 10/30/07
	Town: Clayton .
Investigator. Pippin 1 Trembath	County: Jefferson
Flass 1-10	State: NY
	munity. Spruce plantation w Shrub
	and I we
Is the area a potential Problem Area? Yes(No)	Plot ID: USP-KK
SOILS	
Series and Phase: (GV) Guffin Clay	Drainage Class: WD MWD SPD PD VPD
20 - 11 - 1 - 1	
Subgroup: 1110MC Haplaquepts	Confirm Mapped Type: (Ver) No
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
0-5 A 10483/3 None	Gilt-Clay loam
5+ B 104R5/2 None	Clay
101170 7000	
Remarks: low chroma day in B. Horizon,	no mottling.
low chroma clay in De lorrison,	
YDROLOGY	
Recorded Data (Describe in Remarks) Field Observations	
	d Surface Inundatedinches.
Aerial Photographs	
Depth to Free Water_	inches.
Depth to Saturated Soi	ilsinches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators C	**C 000 C 00
	ed Root Channels in upper 12 inches
	Stained leaves
Water Marks Local S	
	ological Plant Adaptations
	Explain in Remarks)
Drainage Patterns in Wetland	
Remarks:	News Space 163299 166299202014461289 News 261292515152164 (164 604 154 56 604 154 76 76 76 76 76 76 76 76 76 76
No wetland hydrology noted.	
Mary Land	*
dr office files\forms\Data Form Routine Wetland Determination.xls	9) 3

Project Number: Applicant:	05030 Horse Creek Windpower				Date: Plot ID Number:	10/30/07 USP-KK
1 whi 2 Que 3 4 gree 5 how 6 lub 7 8 No 9 10 11 12 13 14	te spruce te spruce ting Aspen dogwood of suckle us sp. herbs.	н н н	\$/\$ \$/\$ \$/\$ \$/\$ \$/\$ \$/\$ \$/\$ \$/\$ \$/\$ \$/\$	v v v	Indicator: FACU FACU FACU	%Cover: 75 20 40 30 10
Percent of Dominar	nt Species OBL, FACW, FAC 25 %	e Applied?	(Yes)	No	Percent of Dominant Species	OBL, FACW
		Is this		Point V	Ves of No Within a Wetland? Ily Isolated? Photo Reference Nur	Yes of No Yes or No ALA aber:

DATA FORM ROUTINE WETLAND DETERMINATION

Towns Clayton Jefferson County State NY	Project No: 05030	Applicant: Horse Cr	reek Windpower		Date:	10-30-07
Do normal circumstances exist on site? Is the site significantly disturbed? Is the series a potential Problem Area? Flot ID. Series and Phase: (GV) GULFS Series and Phase: (GV) GULFS Subgroup: Mollic Huplaquepts Confirm Mapped Type: (W) No Poul Horizon Histolos Histolos Histolos Histolos Histolos Reducing Conditions Adult Molsture Regime Landscape position: Concave Concave Concave Gonewe Staries Industry Mo Recorded Data (Describe in Remarks) No Recorded Data (Describe in Remarks) Serian Lake or Tide Guage Aerial Photographs Weiland Hydrology Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Sentineant Deposits Drainage Patterns in Wedand Sentineant Deposits Drainage Patterns in Wedand Sentineant Deposits Drainage Class: WD MWD SPD (PD VPD) Transoct/Flag ID. List of Confirm Mapped Type: (W) No Texture, Structure, Other Spill Clay Listed on Local Hydric Soils List Listed on Local Hydric So					Town:	Clayton
Do normal circumstances exist on she? Is the site significantly disturbed? Is the site significantly disturbed? Is the sere a potential Problem Area? Depth Horizon Matrix color Mottle Color/abundance Mottle Color/abundance Mottle Soil Indicators: History History History Mottle Soil Indicators: History History Mottle Soil Indicators: History Missory Mottle Colorabundance Mottle Colorabundance Mottle Colorabundance Texture, Structure, Other Still Clay Depth Horizon Mottle Soil Indicators: History History Mottle Colorabundance Mottle Colorabundance Texture, Structure, Other Still Clay Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Other (Replain in Remarks) No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Actial Photographs Wetland Hydrology Indicators: Primary Indicators: Scandard Describes in Remarks Scandard Discrete Water J. Ordidaced Root Chameds in upper 12 inches Mottle Colorabundance Mottle Colorabundance Texture, Structure, Other Texture, Structure, Other Texture, Structure, Other Start and Planes: World Mottle Clayer of Sandy Soils Listed as Potential for Hydric Soils List Listed as Potential for Hydric Soils Acquir Motstare Regime Approxima	Investigator: Pipping	1/Trembash			County:	·
Is the site significantly distratived? Is the area a potential Problem Area? Flot ID: Plot ID					State:	NY
Subsection Protein P	Do normal circumstances exist on	site? Yes N	0	Community:	955	
Series and Phase: Color Color Color Color Color	Is the site significantly disturbed?	(FE)N	o - Spruce	Transect/Flag ID:	LL 1- (le	
Series and Phase: (GV) GUFFY CARY Subgroup: Mollic Haplaguepts Confirm Mapped Type: (F) No Depth Horizon Matrix color Mottle coloriabundance Texture, Structure, Other Sill Clay			e) horas		WSO Q GL	- (
Series and Phase: GV GUSF'N CAY Subgroup: Mollic Haplaquepts Confirm Mapped Type: VP No Depth Horizon Matrix color, Mottle color/abundance Horizon Matrix color, Mottle color/abundance Histolo Histolo Histology Histology Histology Histology Agric Odor Reducing Conditions Landscape position: Concave Convex India Understore: Depth Horizon Matrix Color Histology Agric Odor Ag			<u> </u>	·		
Horizon Matrix color Mottle color/abandance Texture, Structure, Other Still Clay		2010			2413	
Horizon Matrix color Mottle color/abandance Texture, Structure, Other Still Clcy	Series and Phase: (6V)	Buffin d	'ay	D	rainage Class:	WD MWD SPD PD VPD
Horizon Matrix color Mottle color/abandance Texture, Structure, Other Still Clcy	Subgroup: Moll	ic Hapla	aucots	C	onfirm Mapped Type:	Yes No
Hydric Soil Indicators: Histisols			W 1975 CO 1975			
Hydric Soil Indicators: Histisols Histo Epipedon High Org. Content in Surface Layer of Sandy Soils Suffice Odor Spraine Streaking in Sandy Soils Convex Inst Undulating Remarks: Concave		NO AL.	Motor communication	1	2 2 2	
Histisols Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Suffdic Odor Suffdic Odor Corganic Streaking in Sandy Soils Reducing Conditions Concave Gleyed or Low Chroma color Landscape position: Concave Glat Water Agric Saturated Satura	11-10-11	77F (1		- 2	114 614	
Histisols Histis Epipedon High Org. Content in Surface Layer of Sandy Soils Suffdic Odor Organic Streaking in Sandy Soils Aguic Moissure Regime Landscape position: Concave Organic Surface Layer of Sandy Soils Cother (Explain in Remarks) Aquic Moissure Regime Aquic Moissure Regime Approximate slope: Inst COROLOGY A Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Larial Photographs Depth to Free Water Depth to Free Water Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators: Primary Indicators Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits A Drainage Patterns in Wetland Depart of Sandy Soils Convex Institute on Local Hydrology Indicators Secondary Indicators Secondary Indicators Mater Stained leaves Morphological Plant Adaptations Other (Explain in Remarks) Cherc (Explain in Remarks) Listed on Local Hydric Regime Listed on Local Hydric Regime Chestological Plant Adaptations Other (Explain in Remarks) Listed on Local Hydric Regime Listed on Local Hydric Regime Listed on Local Hydric Regime Chestological Plant Adaptations Other (Explain in Remarks)		221			1	
Histisols Histis Epipedon High Org. Content in Surface Layer of Sandy Soils Suffdic Odor Organic Streaking in Sandy Soils Aguic Moissure Regime Landscape position: Concave Organic Surface Layer of Sandy Soils Cother (Explain in Remarks) Aquic Moissure Regime Aquic Moissure Regime Approximate slope: Inst COROLOGY A Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Larial Photographs Depth to Free Water Depth to Free Water Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators: Primary Indicators Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits A Drainage Patterns in Wetland Depart of Sandy Soils Convex Institute on Local Hydrology Indicators Secondary Indicators Secondary Indicators Mater Stained leaves Morphological Plant Adaptations Other (Explain in Remarks) Cherc (Explain in Remarks) Listed on Local Hydric Regime Listed on Local Hydric Regime Chestological Plant Adaptations Other (Explain in Remarks) Listed on Local Hydric Regime Listed on Local Hydric Regime Listed on Local Hydric Regime Chestological Plant Adaptations Other (Explain in Remarks)		PARALLE SE		All T	11 11 11	
Histiscis Concretions Listed on Local Hydric Soils List Listed as Potential for Hydric Inchess Listed as Potential for Hydric Inchess Listed as Potential for Hydric Inchess Concave Convex Sloping Aquic Moisture Regime Table Concave Convex Sloping Approximate slope:		!				
Histic Epipedon Suffdic Odor Su	STOREST CONTRACTOR STOREST STOREST STOREST	Concretions		List	red on Local Hydric Soil	te l jet
Sufficie Odor Organic Streaking in Sandy Solls Aquie Moisture Regime Landscape position: Concave Convex Sloping Approximate slope: Undulating Moisture Regime			Surface Lover of Sandy Soils			
Landscape position: concave						
Remarks: Part	Reducing Conditions	Cleyed or Low Chroma	a color	Aqı	uic Moisture Regime	
Remarks: Print	8	THE STREET STREET	A Anna Maria Anna Anna Anna Anna Anna Anna Anna An			
Primary Indicators Primary	Landscape position:	-		sloping	Approximate	e slope:
Parietre						The second secon
Parietre	Damarke				No.	10
Recorded Data (Describe in Remurks) Field Observations No Recorded Data Available Stream, Lake or Tide Gauge Lake or Tide Gau	HLIIIA. E.S.					
Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Stream, Lake or Tide Gauge Let Aerial Photographs Depth to Free Water Morphological Plant Adaptations Local Soil Survey Morphological Plant Adaptations Morphological Plant Adaptations Morphological Plant Remarks Morphological Pl						1
Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Stream, Lake or Tide Gauge Lateral Photographs Depth to Free Water Morphological Plant Adaptations Local Soil Survey Drainage Patterns in Wetland Morphological Plant Adaptations Depth to Remarks Local Soil Survey Drainage Patterns in Wetland Depth to Remarks Depth to Saturated Secondary Indicators (2 or more required) Morphological Plant Adaptations Morphological Plant Adaptations Depth to Saturated Morphological Plant Remarks Depth to Saturated Morphological Plant Remarks Depth to Saturated Secondary Indicators (2 or more required) Morphological Plant Adaptations Depth to Saturated Morphological Plant Adaptations Depth to Saturated Secondary Indicators (2 or more required) Morphological Plant Adaptations Depth to Saturated Morphological Plant Adaptations Depth to Saturated Morphological Plant Adaptations Depth to Saturated Secondary Indicators (2 or more required) Morphological Plant Adaptations Depth to Saturated Morphological Plant Ad		8				
The Recorded Data (Describe in Remarks) Field Observations						
No Recorded Data Available Stream, Lake or Tide Gauge Learning Photographs Depth to Free Water Depth to Saturated Depth to Saturated Soils Depth to Saturate Soils Depth to Saturated Soils Depth to Saturated Soils Depth t						
Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water / / / inches. Depth to Saturated Soils / inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated / Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. / Water-Stained leaves Water Marks / Local Soil Survey Drift Lines / Morphological Plant Adaptations Sediment Deposits / Other (Explain in Remarks)			20,000,000,000,000			new Year of the Control of the Contr
Land Aerial Photographs Depth to Free Water Morphological Plant Adaptations					andatedu	aches.
Depth to Free Water Notes. Depth to Saturated Soils Notes. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Surrated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Free Water Naturated inches. Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)			763	SOII Saturates.		
Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Depth to Saturated Soils Secondary Indicators (2 or more required) Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		at ratiographs	Depth to Fre	water > 11 in	ches	
Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) inundated Surrated in upper 12 inches. Water-Stained leaves Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water-Stained leaves Mater-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)						
Primary Indicators Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) Water House (2 or more required) Water-Stained leaves Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)			Depth to can	Mrated Sons	IRCRES.	
Inundated			2 4 1	near an C	V 1447	
★ Saturated in upper 12 inches.		• . •		THE TAXABLE PARTIES AND A STREET OF THE PARTIES AND A STRE		
						5
Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland					es	
Sediment Deposits Other (Explain in Remarks) **Drainage Patterns in Wetland **Deposite:			- 4		we Adaptations	
→ Drainage Patterns in Wetland			-			
Danieles			Y. X	_ 0000 (0.19	(Ciliatos)	
Remarks: Hunnocky, Salusated Soil					=	
Hunnocky, Sadward Soil	Remarks:			***************************************		
	Hunno	Why Sadur	Vide Lista			
	Y The same of the	11			390	
		3 10 3 0				

Project Number: 05030		Date: 10-30-07	
Applicant: Horse Creek Windpower	the state of the s	Plot ID Number: USPC LL-1	-
Approxit.		THE INTERIOR OF CELL	
VEGETATION	-		
Dominant Plant Species:	Stratum: (circle one)	Indicator. % Cover	
1 Salix Sp.	H S/S T V	FACW/OBL TO	
2	H S/S T V		
3 Solidago Sp.	■ S/S T V		
4 Soft rush	H S/S T V	FACW+ 10	
5 10001 91455	H S/S T V	FACW+ 20	
6 Mealow sweet	⊕ s/s ⊤ v	FALW+ 10	
7	H S/S T V		
8	H S/S T V		
9	H S/S T V		
10			
11			
12			
13			
14			
	H S/S T V		
16	H S/S T V	-	
Percent of Dominant Species OBL, FACW, FAC (1)	O Rule Applied? Kes No	t of Dominant Species OBL, FACW	76
Remarks:	*		-
WETLAND DETERMINATION			4. 3
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No	
Wetland Hydrology Present? (Yes dr No	Is this Sampling Point Within a		
Hydrologic Connectivity to Off-site Wetlands? Yesor Remarks:		Photo Reference Number:	
2		A TOTAL AND A TOTAL OF THE A TOTAL O	
**			
Y Y	6	100	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Series and Phase: (CB) CAMMONT SHY CLAY Subgroup: ACNC OCCURAGINATE Confirm Mapped Type: (Fe) No Depth Horizon Marrix color. Motile color/abandance Texture, Structure, Other Silf Clay High Cry. Content in Surface Layer of Sandy Soils Hisroic Epipedon High Cry. Content in Surface Layer of Sandy Soils Reducing Conditions Acquie Moisture Regime Approximate slope: Indicate peosition: concave convex sloping Approximate slope: Indicate peosition: concave sloping Approximate slope: That unduluting Structure, Other (Explain in Remarks) No Recorded Data (Describe in Remarks) No Recorded Data	Project No: 05030 Applicant: Horse C	reek Windpower	D	ate: 10-30-07
State: NY	· ·	8	To	Wn: Clayton
Do normal circumstances exist on site? Is the site significantly disturbed? Is the site significantly disturbed? Is the site significantly disturbed? Is the series a potential Problem Area? Ves 60 Plot ID: L. 1 - Lo Plot ID: L. 2 - Lo MM— Drainage Class: WD MWD(SED) FD VFD Mould color/abandance Texture, Structure, Other Significantly conditions Listed on Local Hydric Soils List Listed on	Investigator Pippina Trembath		c	ounty: Jefferson
Is the site significantly disturbed? Is the site significantly disturbed? Is the see a potential Problem Area? Yes 60 Plot ID: L-5 Q LL MM		1 9	St	ate: NY
Is the site significantly disturbed? Is the area a potential Problem Area? Ves 60 Plot ID: LL 1 - Lo Plot ID: LSS © LL MM- Drainage Class: WD MWD (SPD) FD VPD Subgroup: Apric Ochtagaal FS Subgroup: Apric Ochtagaal FS Subgroup: Apric Ochtagaal FS Subgroup: Apric Soil Indicators: Histoic Epipedon Histoic Epipedon Histoic Epipedon Subdic Odor Peduring Conditions Elised a Potential for Hydric Inclusions Only Other (Explain in Remarks) No Recorded Dus (Describe i	Do normal circumstances exist on site? Yes	No	Community: Uplal	forest
Description Profit Description Profit Description Descriptio			ransect/Flag ID: LL - 1 -	110
Series and Phase: (CB) CAMMONT S. H. CAM Drainage Class: WD MVD (SD) PD VPD Subgroup: Acnic Octoraguals Confirm Mapped Type: (Fe) No Depth Horizon Matrix color Matrix color Moule color/abandance Texture, Structure, Other S. C.				66-1 / MM-1
Series and Phases (CAB) CAMMONT SHY CAMY Subgroup: Acric Ochraquals Confirm Mapped Type: (Ve) No Depth Horizon Manix colog, Mouth color/albandance D-16+ A MYP. Sill Clay Hydric Soil Indicators: Histolos				
Subgroup: Acric Ochraguals: Confirm Mapped Type: (Ye) No Depth Horizon Matrix color: Mottle color/abundance Depth Horizon Matrix color: Mottle color/abundance Texture, Structure, Other S. [1] Clay Hydric Soil Indicators: Histis Epipedon Subdic Odor Reducing Conditions Filey Org. Concretions Histic Epipedon Subdic Odor Reducing Conditions Folleyed or Low Chroma color Concave Convex Sloping Approximate slope: Indicators flat undulating 72 Remarks: Socilo As (Moss.) Remarks: Seconded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge X Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water Marks Drainage Putterns in Wetland Remarks: Remarks: Confirm Mapped Type: (Ye) No Texture, Structure, Other Saturated Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water Marks Drainage Putterns in Wetland Remarks: Confirm Mapped Type: (Ye) No Texture, Structure, Other Saturated as Potential for Hydric Soils List Listed as Potential for Hydric Soils	SOILS			
Subgroup: Acric Ochraguals: Confirm Mapped Type: (Ye) No Depth Horizon Matrix color: Mottle color/abundance Depth Horizon Matrix color: Mottle color/abundance Texture, Structure, Other S. [1] Clay Hydric Soil Indicators: Histis Epipedon Subdic Odor Reducing Conditions Filey Org. Concretions Histic Epipedon Subdic Odor Reducing Conditions Folleyed or Low Chroma color Concave Convex Sloping Approximate slope: Indicators flat undulating 72 Remarks: Socilo As (Moss.) Remarks: Seconded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge X Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water Marks Drainage Putterns in Wetland Remarks: Remarks: Confirm Mapped Type: (Ye) No Texture, Structure, Other Saturated Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water Marks Drainage Putterns in Wetland Remarks: Confirm Mapped Type: (Ye) No Texture, Structure, Other Saturated as Potential for Hydric Soils List Listed as Potential for Hydric Soils	Series and Phase: (CB) Chaumor	Asthi da	711 Drainage Clas	WD MWD SPD PD VPD
Mottle color/abandance			/	^
Hydric Soil Indicators: Histisols		right FS		
Hydric Soil Indicators: Histisols Histe Epipedon Jiigh Org Content in Surface Layer of Sandy Soils Justed as Potential for Hydric Inclusions Only Suffdie Odor Reducing Conditions Gileyed or Low Chroma color Landscape position: concave concave first undularing Remarks: Soil A Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge X Aerial Photographs Wetland Hydrology Indicators: Prinary Indicators: Occiding Roos Channels in upper 12 inches Water-Stained leaves Water-Sta	1 1 1 1 1	Mottle color/abundance	· · · · · · · · · · · · · · · · · · ·	
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils List Listed as Potential for Hydric Heusions Only Suddio Godor Organic Streaking in Sandy Soils Cother (Explain in Remarks) Reducing Conditions Concave coneave convex sloping Approximate slope: It and Concave coneave convex sloping Approximate slope: Remarks: Soil G Ground Surface Insudated inches, No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Insudated Saturated in upper 12 inches, Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:	D-1C+ A 1011/1		1 7:14 0	ily
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils List Listed as Potential for Hydric Heusions Only Suddio Godor Organic Streaking in Sandy Soils Cother (Explain in Remarks) Reducing Conditions Concave coneave convex sloping Approximate slope: It and Concave coneave convex sloping Approximate slope: Remarks: Soil G Ground Surface Insudated inches, No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Insudated Saturated in upper 12 inches, Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:			a	1
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils List Listed as Potential for Hydric Heusions Only Suddio Godor Organic Streaking in Sandy Soils Cother (Explain in Remarks) Reducing Conditions Concave coneave convex sloping Approximate slope: It and Concave coneave convex sloping Approximate slope: Remarks: Soil G Ground Surface Insudated inches, No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Wetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Insudated Saturated in upper 12 inches, Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks:		*		
Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils List Listed as Potential for Hydric Heusions Only Sudidic Odor Organic Streaking in Sandy Soils Cother (Explain in Remarks) Reducing Conditions Landscape position: concave convex sloping Approximate slope: flat undulating Approximate slope: Remarks: VDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Saturated. Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Primary Indicators Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water Marks Drift Lines Stream Lake Or Tide Saturated Morphological Plent Adaptations Other (Explain in Remarks)				
Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Other (Explain in Remarks) Sufficie Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Aquic Moisture Regime Landscape position: concave convex sloping Approximate slope: undulating convex undulating convex industrial stope in Remarks: Soils W Moist Remarks: Soils W Moist Remarks: Field Observations No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge X Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Aquic Moisture Regime Field Observations Als Ground Surface Inundated inches, JS Soil Saturated. Depth to Free Water inches. Depth to Free Water inches. Depth to Saturated Soils inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Water Marks Drift Lines Morphological Plant Adaptations Other (Explain in Remarks) Drainage Putterus in Wetland Remarks:	151 security 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Listed on Local F	iverie Sails List
Suffdie Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Concave convex sloping Approximate slope: It undulating conditions Concave convex sloping Approximate slope: It undulating conditions Remarks: Soil S S (MOST) Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Y Aerial Photographs Wetland Hydrology Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Secondary Indicators (2 or more required) Inundated Ocidized Root Channels in upper 12 inches Water Marks Local Soil Survey Water Marks Local Soil Survey Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks)		Surface Laver of Sandy Soils		
Remarks: Geleyed or Low Chroma color Aquic Moisture Regime		A TANK THE COLUMN TO SELECT THE STREET OF THE SECOND SECON		
Remarks: Soils as Moist				
Remarks: Soils Workst				
Soils Soils Moist			slopingA	proximate slope:
VDROLOGY	ilat	undulating		
VDROLOGY	Damarke-			Led \$110.000.000.000.000.000.000.000.000.000
Process of the second part of		re moist.		
Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Stream, Lake or Tide Gauge NO Soil Saturated.	20110			
Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Stream, Lake or Tide Gauge NO Soil Saturated.	* * * * * * * * * * * * * * * * * * *			
No Recorded Data Available Stream, Lake or Tide Gauge X Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Inundated	YDROLOGY			
Stream, Lake or Tide Gauge X Aerial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches.	Recorded Data (Describe in Remarks)			
Metland Hydrology Indicators: Primary Indicators Depth to Saturated Soilsinches.				inches,
Depth to Free Waterinches. Depth to Saturated Soilsinches. Wetland Hydrology Indicators: Primary Indicators InundatedOxidized Root Channels in upper 12 inches Saturated in upper 12 inchesWater-Stained leaves Water MarksLocal Soil Survey Drift LinesMorphological Plant Adaptations Sediment DepositsOther (Explain in Remarks)		_ NO	_Soil Saturated.	
Wetland Hydrology Indicators: Primary Indicators Inundated Inuper 12 inches Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Drift Lines Sediment Deposits Drainage Patterns in Wetland Remarks: Secondary Indicators (2 or more required) Water Root Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		Depth to Free	Waterinches.	
Primary Indicators Inundated Inundated Saturated in upper 12 inches. Water-Stained leaves Unifications Drift Lines Sediment Deposits Drainage Putterns in Wetland Secondary Indicators (2 or more required) Water Moot Channels in upper 12 inches Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)		Depth to Satu	rated Soilsinches.	
Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:	Wetland Hydrology Indicators:			
Saturated in upper 12 inches. Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Drainage Patterns in Wetland Remarks:	Primary Indicators	Secondary Inc	licators (2 or more required)	
Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:	130000000000000000000000000000000000000			: 12 inches
Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:			- West and the Control of the Contro	
Sediment DepositsOther (Explain in Remarks)Drainage Patterns in Wetland Remarks:				
Drainage Patterns in Wetland Remarks:			t and the state of	
			some fembrem ne sottimes)	
	Danielle			
No in dalos durantoistics	1		2.2	
	No hy dal	no diam	lonstics	12
	edr office files\forms\Data Form Routine Wet	and Determination.xls	* (**) _#	* * 90

Project Number: 05030	»	Date:	10-30-67	
Applicant: Horse Creek Windpower			uspe LL-1	
VEGETATION Dominant Plant Species: 1 While Squile 2 Queting Aspen 3 American Elm 4 5 Gry Dansbord 6 testinan Honey in dele 7 Duct the in 8 9 Solidage P. 10 Coild Stewberry 11 12	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACU FACW- FAC FACU FACU FACU FACU FACU FACU FACU	% Cover; 25 16 (0 10 10	
14 15 16 Percent of Dominant Species OBL, FACW, FAC 2090 50/20 Rule A	H S/S T V H S/S T V Percen	at of Dominant Species O	BL, FACW_20%	***************************************
Remarks:			41444	3
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a Is this Wetland Potentially Isola We + land		es or No	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Applicant: Horse Creek Windpower Project No: Date: Clayton Town: / Trembath Investigator, Pippin Jefferson County: NY State: PSS/EME Yes No Community: Wetland mm Is the site significantly disturbed? Transect/Flag ID: WSP-MM Is the area a potential Problem Area? Plot ID: SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Depth Matrix color Texture, Structure, Other 104R 3/2 10425/4 Silt - Clay Common >5 0-16+ Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color ____ Aquic Moisture Regime Landscape position: concave sloping Approximate slope undulating Remarks: * USP-LL & USP-MM - shared data pt. RYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated inches Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water 3-4 Depth to Saturated Soils 0 Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: Hummock s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 , Applicant: Horse Creek Windpower	Date: 10/30/07 Plot ID Number: WSP - MM		
Dominant Plant Species: 1 Willow shrubs 2 meadow sweet 4 green bulrush 5 reed canary grass 6 wool grass 7 sedges 8 9 10 11 12 13 14	H S/S T V	Indicator: FACW/OBC FACW+ OBC FACW+ FACW/OBC	% Cover: 9 u 25 15 40 10
Percent of Dominant Species OBL, FACW, FAC / DD 9	Per Rule Applied? Yes No	reent of Dominant Species OBL, Fa	acw/002-
Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? (Yes or No Wetland Hydrology Present? (Yes or No	Hydric Soils Present? Is this Sampling Point Withi	Yes or No in a Wetland? Yes or I	Νο
	Is this Sampling Point Withi Is this Wetland Potentially Is	in a Wetland? Yes or I	

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street

Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delinearion Manual 10-30-67 05030 Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator: Pippin/Stebbins/ Tenbell Jefferson County: NY State: Community: Do normal circumstances exist on site? (TES) No Transcet/Flag ID: NN Is the site significantly disturbed? NN-Plot ID: WSP @ Is the area a potential Problem Area? sons WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Yes No Texture, Structure, Other Depth Horizon Matrix color Mottle color/abundance 104E 5/8 Clay Hydric Soil Indicators: Concretions Histisols Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils ___ Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils ___ Other (Explain in Remarks) ____ Aquic Moisture Regime Reducing Conditions _Gleyed or Low Chroma color Landscape position: Approximate slope: concave CORVEX undulating Remarks: HYDROLOGY Field Observations Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water 10 inches. Depth to Saturated Soils 0 Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Inundated X Oxidized Root Channels in upper 12 inches __X_ Saturated in upper 12 inches. X Water-Stained leaves X Water Marks Local Soil Survey > Morphological Plant Adaptations Drift Lines Other (Explain in Remarks) Sediment Deposits Drainage Patterns in Wetland Remarks: Humnery, saluated 50:15.

s:\edr office files\forms\Data Form Routine Wetland Determination,xls

Project Number: 05030 Applicant: Horse Creek Windpower	· · · · · · · · · · · · · · · · · · ·	Plot ID Number: US	-30-07- PC NN-1
VEGETATION Dominant Plant Species: 1 Red ruple 2 3 Fed OSIOF POSWOOD 4 Puck thora 5 Salix Sp. 6 7 Whol Glass 8 aster Sp. 9 Shidaya Sp	Stratum: (circle oor) H S/S (P) V H S/S T V	Indicator: FACW+ NL FA(W/OBL	% Cover: 10 10 50 70 15
10 CWRX 5p. 11 Soft MSh 12 13 14 15 16 Percent of Dominant Species OBL, FACW, FAC 100 % 50/20 Rule Ap	0	FACW/OBC FACW+ mut of Dominant Species OBL,	26 5 5 FACW_ 75 %
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Fee or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a list this Wetland Potentially Isol		

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delinestion Manual

Is the area a potential Problem Area? Yes (To) Plot ID: DILS Series and Phase: (KgA) Kingsbury Silty Clay Subgroup: Aenic Octiva gaal 45 Co Depth Horizon Matrix color Mottle color/abundance Text	County: State: NY While Pine Space Forest NN 1-17 USPO NN-1 Trainage Class: WD MWD SPD PD V Trainage Class: WD MWD SPD PD V
Is the site significantly disturbed? Yes (10) Transect/Flag ID: Plot ID: Plot ID: DILS Series and Phase: (KAA) KINGSbury Silty Clay Subgroup: Aenic Octwa gaal 45 Co- Depth Horizon Matrix color Mottle color/abundance Text	NN 1-17 USPO NN-1 rainage Class: WD MWD(SPD)PD V
Is the area a potential Problem Area? Yes (To) Plot ID: DILS Series and Phase: (KgA) Kingsbury Silty Clay Subgroup: Aenic Octiva gaal 45 Co Depth Horizon Matrix color Mottle color/abundance Text	rainage Class: WD MWD SPD PD V
Series and Phase: (KgA) Kingsbury Silty Clay Dr. Subgroup: Aenic Octiva Gall 45 Co. Depth Horizon Matrix color Mottle color/abundance Text	rainage Class: WD MWD(SPD)PD V
Series and Phase: (KgA) KingSbury Silty Clay Dr. Subgroup: Aenic Octiva gaal 45 Co. Depth Horizon Matrix color Mottle color/abundance Text	\sim
Subgroup: Aenic Octiva gaal-f5 Co. Depth Horizon Matrix color Mottle color/abundance Text	\sim
Depth Horizon Matrix color Mottle color/abundance Text	onfirm Mapped Type: Yes No
	ture, Structure, Other
0-1C+ A 1092 3/3 -	Silt clus
	er (Explain in Remarks) ic Moisture Regime Approximate slope:
Remarks: Soils moist	
DROLOGY	
Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface Int.	undated inches.
Stream, Lake or Tide Gauge Soil Saturated.	2441103
Aerial Photographs Depth to Free Waterincl	har
Depth to Saturated Soils	inches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators (2 or more rec	·
	mels in upper 12 inches
Saturated in upper 12 inches Water-Stained leave Water Marks Local Soil Survey	5
Drift Lines Morphological Plant	n Adaptations
Sediment Deposits Other (Explain in Re	emarks)
Drainage Patterns in Wetland	
Remarks:	
No Wydrology indicators,	*
100 Million	

Project Number: 05030 Applicant: Horse Creek Windpower		Date: 10-50-07 Plot ID Number: U.SP@ NN -1
Dominant Plant Species: 1 White fire 2 White Spruce 3 Quality Aspen 4 Shag bark history 5 Led Dak 6 7 NO Shub/Herb layer 8 9 10 11 12 13 14	Stratum: (circle one) H S/S T V H S/S T V	Indicator: % Cover; FACU 30 FACU 10 FACU-16 FACU-10
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule App	~	of Dominant Species OBL, FACW
Remarks:		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No Wetland Hydrology Present? Yes on No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Is this Sampling Point Within a V	

Abt a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

OUTINE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual

Project No:	05030	Applicant: H	orse Creek Windpo	wer	ж.	Date;	10/30/07
2		_	*	*		Town:	Clayton
Investigator.	Pippin/Steb	bins / Tremk	ath			County:	Jefferson
	Flag.	1-9				State:	NY
Do normal circ	cumstances exi	st on site?	Yes) No		Community:	Emergent	Marsh
Is the site sign	ificantly distur	bed?	Yes No		Transect/Flag ID:	Wetland	100
Is the area a po	otential Problem	n Area?	Yes(No)		Plot ID:	WSP- 0	D
SOILS							
Series and Ph	ase: (Wn.	B) Wilpo	int sith	rda	y loany is	rainage Class:	WD ADER SPD PD VPD
Subgroup:	Agun	ic Hapl	udalfs 6	0	c	onfirm Mapped Type:	(Va) No
Depth	Horizon	Matrix color	Mottle cole	or/abundance	Tex	ture, Structure, Other	
0-5	A	104/2/2	None			Muck,	five silt
St	B	107R5/2	10425/c	: 5/0	Common	Clau	loam
		1011- 10	1-1-10	1 10	Columbia		Tour
Hydric Soil In	dicators:						
Histisols		Concretions				ed on Local Hydric Soils	
Histic Epi Sulidic O			itent in Surface Layer o cing in Sandy Soils	Sandy Soils		ed as Potential for Hydri er (Explain in Remarks)	c inclusions Only
	Conditions	The same of the sa	Chroma color			ic Moisture Regime	
			,				
Landscape pos	sition:	concave	con	57.0	sloping	Approximate	slope:
		" [*] "—	wides	s			
Remarks:							
(2.000000000000000000000000000000000000							
mmnov ogv				*au			
HYDROLOGY	Peneried Det	(Describe in Remarks		Field Obs			
		No Recorded Data Av				undated 1-2 in	ches.
		Stream, Lake or Tide (Soil Saturated.		
	/	Aerial Photographs					
				Depth to F	ree Water in	ches.	
				Depth to S	Saturated Soils	inches.	
Wetland Hydro	ology Indicate	ors:					
I	Primary Indicat				Indicators (2 or more re		
		Inundated		_1		nnels in upper 12 inches	
		Saturated in upper 12 : Water Marks	inches.		Water-Stained leav	es	
		Water Marks Drift Lines	(6)		Local Soil Survey Morphological Plan	nt Adamations	
	-	Sediment Deposits		-	Other (Explain in F		
		Drainage Patterns in V	Vetland			AND	
Day	******************	*************************************	********************	***************************************			***************************************
Remarks:	Lt	no Vea			36.	-2	
	Humm			21			
		1					
·ledr office files	elformelDa	ta Form Boutine	Wetland Determ	ination vle	s.	- 4	

Project Number: Applicant:	05030 Horse Creek Windpower		•		Date: Plot ID Number:	10/30/07 WSP-00
1 Com 2 Flat 3 Ent 4 Wood 5 6 7 8 9 10 11 12 13 14	inent Plant Species: men cattail t top goldenrod thania ol grass	H H H H H H H H H H H	S/S T	v v	Indicator: DBC FAC FAC FACW+	% Cover: 85 5 5 5
······································	nt Species OBL, FACW, FAC		(Yes) No		cent of Dominant Species O	BL, FACW DO 70
Wetland Hydrology	ation Present? Yes or No Present? Yes or No tivity to Off-site Wetlands? Yes of No	Is this :	: Soils Prese Sampling Po	oint Within	>	es or No

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Series and Phase: (WDB) WILPOINT SILTY CLAY LOAM Drainage Class: WD MWD SPD PD VPD Subgroup: Agwic Haphaals Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Other Silt loam 9+ B 104443 None Silt loam Hydric Soil Indicators: Histisols Concretions Hish Org. Content in Surface Layer of Sandy Soils Suffice Odor Organic Streaking in Sandy Soils Reducing Conditions Concave Convex Sloping Approximate slope: That Under this sold Remarks: No hydric Soil indicators noted	Project No:	05030	Applicant:	Horse Creek Wind		Date:	10/30/07
State: NY Do normal circumstances exist on size? (42) No Community: Deld (18 SS) Is the size significantly disturbed? (42) No - we will be size significantly disturbed? (42) No - we will be size significantly disturbed? (42) No - we will be size significantly disturbed? (42) No - we will be size significantly disturbed? (42) No - we will be size significantly disturbed? (42) No - we will be size significantly disturbed. (42) No - we will be size significantly disturbed. (42) No - we will be size significantly disturbed. (42) No - we will be size significantly disturbed. (42) No - we will be size significantly disturbed. (42) No - we will be size significantly disturbed. (42) No - we will be significantly disturbed. (43) No - we will be significantly disturbed. (43) No - we will be significantly disturbed. (43) No - we will be significantly disturbed. (44) No - we will be significantly disturbed. (45) No - we will be significan		X .	1-	Lat			
Do normal circumstances exist on size? Is the size significantly disturbed? Is the nexa a potential Problem Area? LES Series and Phase: WB No Provided Series and Phase: Water Marks Depth to Series Water Insches. Water Marks Depth to Series Water Series and Phase: Water Marks Depth to Series (or more required) Oxidated Roce Channets in upper 12 inches. Water Marks Depth to Series and Phase: No Wetland Mydrology noted.	Investigator;	Pippin/Ste	bbins / /rem	bath		County:	
ts the site significantly disturbed? Is the area a potential Problem Area? Ver (No) LS Series and Phase: WB D NI POINT SIM CLAY LAM Drainage Class: WB MWD SPD PD VPD Subgroup: A 107R ³ /3 P+ B 104K ⁴ /3 None Concretions High Org. Content in Surface Layer of Sandy Soils Subition Continua Matrix Color Histic Epipedon Histic Epipedon Sulfic Code Concretions High Org. Content in Surface Layer of Sandy Soils Organic Streaking in Sandy Soils Organic Streaking in Sandy Soils Content on Control Continua Color Aquic Moisture Regime Approximate slope: It is do no Local Hydric Soils Liet Listed on Local Hydric Soils Listed on Local Hydric Soils Listed on Lo					M. 2011 P. 4. F. & C.	State:	NY NY
Is the site significantly disturbed? Is the area a potential Problem Area? Tensoes/Fig. Transces/Fig. ID. ### Dears a potential Problem Area? ### Dears a potential Problem Area? ### Dears a potential Problem Area? #### Dears a potential Problem Area? #### Dears a potential Problem Area? #### Dears a potential Problem Area? ###################################	Do normal cire	cumstances es	cist on site?	(Yes)No	Community:	Old field	155
Series and Phases: W B	Is the site sign	nificantly distu	urbed?	(YE) No - moved to	Transect/Flag ID:	Wetland	00
Series and Phases. (NB) WIPD INT SIM CLAY (AM) Subgroup: Aquic Hopfindals Confirm Mapped Type: (VB) No Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Other O-9 A 107R-33 None Sitt I down Itydric Soil Indicators: Hististols Concretions Hististols Hististols Hististols Hististolo Odor Organic Streaking in Sandy Soils Suffice Odor Reducing Conditions Oleyed or Low Chroma color Reducing Conditions Oleyed or Low Chroma color Reducing Conditions Oleyed or Low Chroma color Indicators: No bydric Soil indicators: Field Observations Soil Saturated Soil Saturated Soil Saturated Soil Saturated Inches. Soil Saturated Soil Saturated Soil Saturated Inches. Soil Saturated Order (Explain in Remarks) Other (Explain in Remarks)	Is the area a po	otential Proble	cm Area?	Yes (No)	Plot ID:	458-00	
Series and Phases. (NB) WIPD INT SIM CLAY (AM) Subgroup: Aquic Hopfindals Confirm Mapped Type: (VB) No Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Other O-9 A 107R-33 None Sitt I down Itydric Soil Indicators: Hististols Concretions Hististols Hististols Hististols Hististolo Odor Organic Streaking in Sandy Soils Suffice Odor Reducing Conditions Oleyed or Low Chroma color Reducing Conditions Oleyed or Low Chroma color Reducing Conditions Oleyed or Low Chroma color Indicators: No bydric Soil indicators: Field Observations Soil Saturated Soil Saturated Soil Saturated Soil Saturated Inches. Soil Saturated Soil Saturated Soil Saturated Inches. Soil Saturated Order (Explain in Remarks) Other (Explain in Remarks)				77700 00 00 00 00 00 00 00 00 00 00 00 0			
Subgroup: Harban Matrix color O-9 A 1078.33 Nove Silf lown 9+ B 1044.43 Nove Silf lown Hydric Soil Indicators: History History History History History Reducing Canditions Gleyed or Low Chroma color That with with a windulating windulatin	OILS	1	27	1 / 11			e e v
Subgroup: Harban Matrix color O-9 A 1078.33 Nove Silf lown 9+ B 1044.43 Nove Silf lown Hydric Soil Indicators: History History History History History Reducing Canditions Gleyed or Low Chroma color That with with a windulating windulatin	Series and Ph	iase: (W)	B/WILL	20 Int SIlty O	lay lam Do	ainage Class:	WD MWD SPD PD VPD
Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Other Silf Journal Silf Si	Subgroup:	Agi	ric Han	shidalfs	Cor	nfirm Mapped Type:	(Yes No
Sith Dearm		11	, ,				···
B 04K4/3 Nove Sitt Clay Command	1	Horizon A		4.1	ice Texti	Cit 1	
Hydric Soil Indicators: Histisols			1 1	None		Dilt loa	<u></u>
Hydric Soil Indicators: Histisols	9+	B	10414/3	None		Silt da	y loam
Histisols Concretions Listed on Local Hydric Soils List Histise Epipedon Histy Org. Content in Surface Layer of Sandy Soils Listed on Local Hydric Soils List Histic Epipedon Gorganic Streaking in Sandy Soils Reducing Conditions Reducing Conditions Gleyed or Low Chroma cotor Grovex Aquic Moisture Regime Landscape position: concave convex sloping Approximate slope: flat undulating X Remarks: No hydric Soil indicators of Ground Surface Inundated inches. Stream, Lake or Tide Gauge Soil Saturated. Stream, Lake or Tide Gauge Soil Saturated. Depth to Free Water inches. Depth to Free Water inches. Depth to Free Water inches. Depth to Saturated Soils inches. Vetland Hydrology Indicators: Primary Indicators Primary Indicators Water Marks Drift Lines Sediment Deposits Druinage Patterns in Wetland Wetland Mydrology noted. No Wetland Mydrology noted.							1
Histisols Concretions Listed on Local Hydric Soils List Histise Epipedon Histy Org. Content in Surface Layer of Sandy Soils Listed on Local Hydric Soils List Histic Epipedon Gorganic Streaking in Sandy Soils Reducing Conditions Reducing Conditions Gleyed or Low Chroma cotor Grovex Aquic Moisture Regime Landscape position: concave convex sloping Approximate slope: flat undulating X Remarks: No hydric Soil indicators of Ground Surface Inundated inches. Stream, Lake or Tide Gauge Soil Saturated. Stream, Lake or Tide Gauge Soil Saturated. Depth to Free Water inches. Depth to Free Water inches. Depth to Free Water inches. Depth to Saturated Soils inches. Vetland Hydrology Indicators: Primary Indicators Primary Indicators Water Marks Drift Lines Sediment Deposits Druinage Patterns in Wetland Wetland Mydrology noted. No Wetland Mydrology noted.			1			***************************************	
Histic Epipedon Suldic Odor Organic Streaking in Sandy Soils Gleyed or Low Chroma color Reducing Conditions Gleyed or Low Chroma color Laudscape position: concey flat undulating X Remarks: No hydric Soil indicators 1 orted ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge X Acrial Photographs Pepth to Free Water inches. Depth to Saturated Soils inches. Primary Indicators Primary Indicators Sediment Deposits Drainage Patterns in Wetland No Wetland Mydrology 1 noted Patterns in Wetland No Wetland Mydrology 1 noted) #U	dicators:			****		
Sulfdic Odor Reducing Conditions Gleyed or Low Chroma color Convex Sloping Approximate slope: Itandiscape position: Concave Convex Undulating X Remarks: No hydric Soil indicators A o ted ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge X Acrial Photographs Pethand Hydrology Indicators: Primary Indicators Primary Indicators Saturated in upper 12 inches. Water-Stained Seaws Drift Lines Sediment Deposits Druinage Patterns in Wetland ROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated inches. Soil Saturated. Soil Saturated. Depth to Free Water inches. Depth to Saturated Soils inches. Water-Stained Seaws Local Soil Survey Water-Stained Seaws Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) Other (Explain in Remarks) No wetland hydrology noted.	**************************************						
Reducing Conditions Gleyed or Low Chroma color		(#:50:100 Posts)		IND-COLO COL L'ANDREIGNE DE CASA MANAGEMENT ANNO SE CASA	2008	Frank Properties and Theory Control Control	Inclusions Omy
Remarks: No bydvic Soil indicators noted				- The second sec			
ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Perimary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Water Marks Water Marks Drainage Patterns in Wetland Described Observations Field Observations Ground Surface Inundated inches. Soil Saturated jnches. Depth to Free Water		Commercial		on share were		B 1150 mount a re-	8
ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Vetland Hydrology Indicators: Primary Indicators InundatedSaturated in upper 12 inches. Water Marks Conditioned Plant Adaptations Sediment Deposits Morphological Plant Adaptations Drainage Patterns in Wetland Moydrology noked Water Stained Leaves Morphological Plant Adaptations Other (Explain in Remarks) Moydrology noked Water Stained Leaves Conditions Other (Explain in Remarks)	Landscape pos	sition:	concave	convex	sloping	Approximate s	ilope:
ROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Vetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) InundatedOxidized Root Channels in upper 12 inches Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland emarks: No Wetland Mydrology no kd			flat	undulating	X		
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Drait Lines Sediment Deposits Drainage Patterns in Wetland Morphological Plant Adaptations Other (Explain in Remarks) No Wetland Mydrology noted	Remarks:	No	hydric	suil indicators	noted	-	* * * * * * * * * * * * * * * * * * *
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Drait Lines Sediment Deposits Drainage Patterns in Wetland Morphological Plant Adaptations Other (Explain in Remarks) No Wetland Mydrology noted	/DROLOGY				11		
Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Waterinches. Depth to Saturated Soilsinches. Perimary Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required)			The second secon		Observations		
Acrial Photographs Depth to Free Waterinches.						idatedincl	hes.
Depth to Free Waterinches. Depth to Saturated Soilsinches. Primary Indicators: Primary Indicators Secondary Indicators (2 or more required)	_	7.72	· Contract C	Cie .	Soil Saturated.		
Vetland Hydrology Indicators: Primary Indicators Primary Indicators Secondary Indicators (2 or more required) Inundated Saturated in upper 12 inches. Water-Stained Jeaves Local Soil Survey Morphological Plant Adaptations Sediment Deposits Drainage Patterns in Wetland Morphology noted. Water-Stained Jeaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) Primary Indicators: Oxidized Root Channels in upper 12 inches Water-Stained Jeaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)	-	*	Acrial Photographs		to Cree Water inch		
Vetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Semarks: No Wetland hydrology noted.							
Primary Indicators				Deput	to Saturated Soris	_inches.	
Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland emarks: No wetland hydrology noted.				Second	lan Indicator (7 as more sea	- descina	
Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) Other (Explain in Remarks) water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) The water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) The water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) The water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks) The water-Stained leaves Local Soil Survey Morphological Plant Adaptations Other (Explain in Remarks)				3,000		27/	
Water Marks Drift Lines Morphological Plant Adaptations Sediment Deposits Drainage Patterns in Wetland Cher (Explain in Remarks) Watland Mydrology noted.				2 inches.		and the same of th	
Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland emarks: No Wetland hydrology noted.						3 €)	
Drainage Patterns in Weiland emarks: No wetland hydrology noted.			Drift Lines				
No wetland hydrology noted.			and the second		Other (Explain in Re-	marks)	
No wetland hydrology nokd.		· . —	Drainage Patterns in	Wetland			
No wetland hydrology nokd.	Pamarba		1		4M		
	Асшагка.	No.	lateral la	. Justony noted.			
		100	DELIMINA N	yararay Troky			
office Classife				0 0.	× ,x		
nnce mosunmsu izia Form Rolline vvetano i leterminanon XIS	dr office files	Morms\Da	ta Form Routin	e Wetland Determination	rie	20	

		T	
Project Number: 05030		Date:	10/30/07
Applicant: Horse Creek Wind		Plot ID Number:	USP-00
	//*		
VEGETATION		0 9	
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 gray digwood	H S/S T V	FAC	35
2	H S/S T V		
3 prchard grass	(H) S/S T V	FACIL	75 -
	Co	EALL	5
4 time thy	A) s/s T V	MU	5
5 tease 1	(H) S/S T V	-NU.	
6 Common burdock	(H) S/S T V	-NL	15
7	H S/S T V		-
8	H S/S T V		
9	H S/S T V		
10	H S/S T V		Ų.
11/	H S/S T V		
12	H S/S T V		
13	H S/S T V	**	
14	H S/S T V		1
15	H S/S T V		
16	II S/S T V		

Percent of Dominant Species OBL, FACW, FAC 33%	Perce	nt of Dominant Species OBL	, FACW
50/20 Rule Ap			
Remarks:) 1884 189 (\$200 1864 1864 1864 1864 1864 1864 1864 1864	9911991 5 2 7 7 9 7 1 1 2 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************
			1
WETLAND DETERMINATION	e e		
Hydrophytic Vegetation Present? Yes of No	Hydric Soils Present?	Yes or No	
Wetland Hydrology Present? Yes o No	is this Sampling Point Within a	_	o(No)
Hydrologic Connectivity to Off-site Wetlands? Yes o No	Is this Wetland Potentially Isola		or No (N/A)
Remarks;		Photo Reference Number:	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual 11/5/07 Project No: Applicant: Horse Creek Windpower Date: Town: Clayton 1 Trembath Investigator: Pippin/Stebbins Jefferson County NY State: PSS Yes) No Do normal circumstances exist on site? Community: WeHand Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS WD MWD SPD PD VPD Confirm Mapped Type: No Horizon Texture, Structure, Other Depth 0-14 Hydric Soil Indicators: Histisols Listed on Local Hydric Solls List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color _ Aquic Moisture Regime Landscape position: concave Approximate slope convex sloping Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available NO Ground Surface Inundated NO Soil Saturated. Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water > 16 inches. Depth to Saturated Soils >16 inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated X Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches, Water-Stained leaves Water Marks Local Soil Survey Drift Lines X Morphological Plant Adaptations Other (Explain in Remarks) Sediment Deposits X Drainage Patterns in Wetland Remarks: Hummocky s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Windpower		Date:1	11/5/07 WSP- PP
Dominant Plant Species: 1 white spruce 2 3 willow shrubs 4 5 Sedges 6 weel grass 7 green bulrush 8 9 10 11 12 13 14 15	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACM FACW/OBL FACW/OBL FACW/OBL OBU	% Cover: 25 85 30 30 40
Percent of Dominant Species OBL, FACW, FAC 80% 50/20 Rule	0.	cent of Dominant Species OBL,	facw <u>80</u> %
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Is	9	r No r No

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Applicant: Horse Creek Windpower Project No: Date: Clayton Town: Investigator. Pippin/Stebbins / Trembath Jefferson County State: (Yes)No Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS WD MWB SPD PD VPD Drainage Class: Confirm Mapped Type: Matrix color Mottle color/abundance Horizon Texture, Structure, Other Depth 101R3 Silticlay None 0-11 B 11+ Hydric Soil Indicators: Histisols ___ Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) ___ Aquic Moisture Regime Reducing Conditions Gleyed or Low Chroma color sloping_ Approximate slope: Laudscape position: concave convex undulating No hydric soil indicators noted. Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Soil Saturated. Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated _ Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: wetland hydrology noted. s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Cr	eek Windpower		-		Date: Plot ID Number:	11/5/0	PP
Dominant Plant Sp White Spr array dogwar buckthorn fescues fescues finothy Canade 9 10 11 12 13	nne's Lece	STE H H H H H H H H H H H	atum: (circle of S/S T		Indicator: FACU FACU FACU FACU FACU FACU	8	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
15		H	S/S T	v		1	
16		H	S/S T	V			
Percent of Dominant Species OF	50/20 Rule A	pplied?	(Yes)No	Рего	ent of Dominant Species	OBL, FACW_	≥
Remarks:							43 ³
WETLAND DETERMINATION Hydrophytic Vegetation Present? Wetland Hydrology Present? Y Hydrologic Connectivity to Off-s Remarks:	Yes of No	Is this S	Soils Presco Sampling Po Wetland Pot	int Within	Yes o(No) a Wetland? blated? Photo Reference Nun	Yes on No	(A)
A 100 PM							

Environmental Design & Research, P.C. 217 Montgomery Street, Suite 1000

DATA FORM

· 274 North Goodman Street Rochester, New York 14607

ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 1987 COE Wetlands Delineation Manual Project No: Applicant: Horse Creek Windpower Date: Clayton Town: Investigator: Pippin States Tenbah Jefferson County: NY State: Do normal circumstances exist on site? Community: Transect/Flag ID: Is the site significantly disturbed? Plot ID: WSCO Is the area a potential Problem Area? SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Horizon Matrix color Mottle color/abundance Texture, Structure, Other Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) ∠Gleyed or Low Chroma color Reducing Conditions ___ Aquic Moisture Regime Landscape position: Approximate slope: undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated inches No Recorded Data Available Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water 7 Depth to Saturated Soils____ inches. Wetland Hydrology Indicators: Secondary Indicators (2 or more required) **Primary Indicators** X Oxidized Root Channels in upper 12 inches Inundated X Water-Stained leaves Saturated in upper 12 inches. Water Marks Local Soil Survey Morphological Plant Adaptations Drift Lines Other (Explain in Remarks) Sediment Deposits * Drainage Patterns in Wetland Remarks: Humberty within Linings Swale

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030		Date: 11/4	107
Applicant: Horse Creek Windpower		Plot ID Number: USP	G AR
VEGETATION	V 7 4	***	
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover.
1 American Elm	H S/S (T) V	FACW-	
2	H S/S T V	-	
3 Salix Sp	H S/S/T V	FALW/OBL	30 -
4 fed osier dozwood	H SE T V	FACW+	ID
5 gran dogwood	H (S/S) T V	FAC	
6 Wet grass	H S/S T V	FACW/OBL	_50 -
7 mealow Sweet	H S/S T V	FACW+	
8 Solidago Sp.	H S/S T V		16
9	H S/S T V		
- 10	H S/S T V		
11	H S/S T V		
12	H S/S T V		
13	H S/S T V	y 4 8	
14	H S/S T V		
15	H S/S T V	4	A.V
16	H S/S T V		Water and
10		-	
Percent of Dominant Species OBL, FACW, FAC 100 % 50/20 Ru	Percule Applied? Yes No	cent of Dominant Species OBL, F	acw <u> 00</u> 20
Remarks:			
			1: X.
			1
		EX.	
WETLAND DETERMINATION		4	
Hydrophytic Vegetation Present? Tes or No	Hydric Soils Present?	Yes or No	
Wetland Hydrology Present? (Yes)or No	Is this Sampling Point Within	a Wetland? Veror	No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Iso	***************************************	No
Remarks:		Photo Reference Number:	
hillow should	denings on	the obje of	a ag.
feld.	, v	1	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Project No: 05030 Applicant: Horse Creek Wind Date: Town: Investigator: Pippint Trembatt County: Jefferson NY State: Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transoct/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS Scries and Phase: (CIA) Chaumont Silty clay
Subgroup: Aeric Ochraquats

Depth Horizon Matrix color Mottle color/abundance WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Texture, Structure, Other Cla Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Aquic Moisture Regime Reducing Conditions Gleyed or Low Chroma color Landscape position: Approximate slope: sloping convex undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated_ inches. Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water_ Depth to Saturated Soils_ Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators _ inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey Water Marks Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) _ Drainage Patterns in Wetland Remarks: No hydrology s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Wind				- e	Date: Plot ID Number	(1/5/0 uspe	RR
VEGETATION		-					
Dominant Plant Species:	Str	ratum: (di	cle one)		Indicator:		% Cover:
1 Stry Dogwood	н	SIS)	r v		FAC	-	100
2	H	S/S	r v			_	7 1
3 Oxak	н	S/S	ΓV		,	_	
4	н	S/S	r v			_	
5	н	S/S	r v			_	
6	н	S/S	ΓV				
7	н	S/S	ΓV				
8	н	S/S	r v				
9	н	S/S	v	5	X		
10	н	S/S 7	r v			_	
п	н	S/S 1	v				1.8.1
12	н	S/S	v			N ()	G
		S/S 1					
13					-	- 1	
14	H	S/S T					
15	II	S/S 7					
16	Н	S/S T	· V			_	
Percent of Dominant Species OBL, FACW, FAC	No.	6 ·			t of Dominant Speci	es OBL, FACW	-6 _
Remarks:						¥	
	1.4						
ETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Is this S	Soils Pre Sampling Wetland I	Point \		Ves or No Wetland? ted? Photo Reference No	Yes or No	7
No 4 a	Methol	Ι.			110		e e

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Project No: Applicant: Horse Creek Wind Date: Town: Trembatt Jefferson Investigator: Pippin County: NY State: Yes No Do normal circumstances exist on site? Community: Wetland Is the site significantly disturbed? Transect/Flag 1D; Is the area a potential Problem Area? Plot ID: SOILS Drainage Class: Confirm Mapped Type: (XXX No Depth Texture, Structure, Other 0-10 10+ Hydric Soil Indicators: Listed on Local Hydric Soils List **Histisols** Concretions Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Approximate stope: Landscape position: concave sloping undulating Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated No Recorded Data Available Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water 3 Depth to Saturated Soils 1-2 Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Morphological Plant Adaptations Drift Lines Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: Hummocky s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number:	05030 Horse Creek Wind	-	Date:	11/5/07 INSP- RR
Approant	THE THE TIME		Tiot to Number	0027 7-1
VEGETATION	91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2)		
	nant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
	low shrubs	H (S/S) T V	FACW/OBL	90
2		H S/S T V	17.007	
3 Yee	d canary grass	H) S/S T V	FACW+	40
_	1001 grass	H) S/S T V	FACW+	45
5 gri		H S/S T V	OBL	15
. 0	VMI MAN	H S/S T V		
7		H S/S T V		•
		II S/S T V		
		H S/S T V	(1	
		H S/S T V	-	
		H S/S T V	***************************************	
	*	•	- 	
		_		
	2 7 7	H S/S T V		
	- 100	H S/S T V		7/
	8 - 2	H S/S T V		v: =
16		н s/s т v		
		ale Applied? (Yes) No	nt of Dominant Species OE	
Remarks: A	rea moved at ento active ag fic	d where it breaks	out of.	shrubland
VETI AND DETERM	MINATION			
VETLAND DETERM	ion Present? Yes or No	Hydric Soils Present?	Yes or No	
Wetland Hydrology P		Is this Sampling Point Within a		sor No
	vity to Off-site Wetlands? Nessor No	Is this Wetland Potentially Isola		s on No
Remarks:	The state of the s	A COLOR OF THE PROPERTY OF T	Photo Reference Number	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Wind		Date:	11/5/07	
Investigator: Pippin/Sauce / Tree	mbath		Town: County:	Jenerson
			State:	NY
Do normal circumstances exist on site?	(Ves)No	Community:	Active /	Ag. (Hay)
Is the site significantly disturbed?	(Yes) No - me weed	Transect/Flag ID:	Wetland	RR
Is the area a potential Problem Area?	Yes No	Plot ID:	U5P-1	RIZ
soils (ca) o/				To the second se
Scries and Phase: (CB) Chau	mont silty a	ay Dr	ainage Class: V	VD MWD SPD PD VPD
Subgroup: ACMC OCHYO	aqualts.	Con	nfirm Mapped Type:	(Yes)No
Depth Horizon Matrix color	Monte color/abund		ure, Structure, Other	
0-16+ A 104R3/2	None		Silt-cl	ay loam
	-2			7
			5	
Hydric Soil Indicators:		816	0	=
HistisolsConcretion			d on Local Hydric Soils L	
	Content in Surface Layer of Sandy		d as Potential for Hydric	inclusions Only
	treaking in Sandy Soils Low Chroma color		r (Explain in Remarks) c Moisture Regime	
	Low Chroma coto		Motsinic Regime	
Landscape position: concave	convex	sloping_	Approximate sl	lope;
flad		V	= 4	
Remarks: No hydr	ic soil indice	ators noted,		
DROLOGY	* * * * * * * * * * * * * * * * * * * *		2	7
Recorded Data (Describe in Rema		d Observations		
No Recorded Data Stream, Lake or Ti		Ground Surface Inun- Soil Saturated.	datedinch	CS.
Aerial Photograph		Son Salarays.		
		oth to Free Waterinche	es.	
	Dept	th to Saturated Soils	_inches.	
Wetland Hydrology Indicators:				
Primary Indicators	Seco	ondary Indicators (2 or more requ	- Contract	¥ 31
Inundated	, see 197	Oxidized Root Chann		
Saturated in upper	12 inches.	Water-Stained leaves		
Water Marks Drift Lines		Local Soil Survey Morphological Plant	4 de-patiens	
Sediment Deposits		Other (Explain in Ren		
Drainage Patterns i	T 100 100 100 100 100 100 100 100 100 10	117	iliuko,	
Remarks:				++++++++++++++++++++++++++++++++++++++
Ala 18 Ham	d hydrology no	41		
100 0001	a myarology or	1/64.		
	0	N AVI		
dr office files\forms\Data Form Routi	ne Wetland Determination	n xis		

Project Number: 05030 Applicant: Horse Creek Wind	7	Date: 11/5/07 Plot ID Number: USP - RR	
Dominant Plant Species: 1 Orchard grass 2 De renni et rye grass 3 Dupen Annes Lace 4 red clover 5 6 7 8 9 10 11 12 13 14 15	Stratum: (circle one) H) S/S T V H) S/S T V H) S/S T V H) S/S T V H S/S T V	Indicator: %Cover: FACU- 10 FACU- 20 FACU- 20	
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule	×	nt of Dominant Species OBL, FACW	
VETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes (F No)	
Wetland Hydrology Present? Yes of No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:	Is this Sampling Point Within a		T I

Environmental Design & Research 217 Montgomery Street, Suite 1000

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street

Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual Project No: Applicant: Horse Creek Wind Date: Town: Investigator. Pippin Trembath County: Jefferson NY State: Community: 455 Do normal circumstances exist on site? Transect/Flag ID: 55 1-Is the site significantly disturbed? Plot ID: WSPC is the area a potential Problem Area? SOILS WD MWD GED PD VPD Drainage Class: Confirm Mapped Type: (Yos No Horizon A Matrix color Texture, Structure, Other Mottle color/abundance 2:17 Cla Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) _ Aquic Moisture Regime Reducing Conditions ★Gleyed or Low Chroma color Landscape position; Approximate slope: convex noist but not suturated at ~ (011 Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated____ No Recorded Data Available Stream, Lake or Tide Gauge ND Soil Saturated. Acrial Photographs Depth to Free Water 7 1 inches. Depth to Saturated Soils 716 inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) ★ Oxidized Root Channels in upper 12 inches _ Inundated Saturated in upper 12 inches. ★ Water-Stained leaves Y Water Marks Local Soil Survey Morphological Plant Adaptations **Drift Lines** Sediment Deposits Other (Explain in Remarks) / Drainage Patterns in Wetland unnocky with drawing swall. Remarks:

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Wind		Plot ID Number: Loss	11/5/07
Dominant Plant Species: Sult 50. Correct Consultant Solida jo 50.	Stratum: (circle one) H S/S T V H S/S T V H S/S T V	Indicator: FACW/OBC FAC	%Cover: 20 30
5 Soff (15h) 6 Wool Grass 7 (Wen 5p. 8 9 10 11 12 13 14	H S/S T V	FACW+ FACW/OSL	30 16 20
Percent of Dominant Species OBL, FACW, FAC 1067	H S/S T V Pour le Applied? Yes No	rcent of Dorninant Species OBL, I	FACW_75%
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks: Willow Sharb	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Is draining to See A raining to See A rainin	solated? Yes or Photo Reference Number:	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Project No: 05030 Applicant: Horse Creek Wind Date: Town: Investigator: Pippin Trembath Jefferson County: NY State: active Yes) No Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transect/Flag ID: Is the area a potential Problem Area? Plot ID: SOILS Series and Phase: (Cp) Coving ton Silty Clay WD MWD(SPB PD VPD Drainage Class: Subgroup: Confirm Mapped Type: Depth Horizon Matrix color Mottle color/abundance Texture, Structure, Other Hydric Soil Indicators: Histisols Listed on Local Hydric Soils List Concretions Histic Epipedon Listed as Potential for Hydric Inclusions Only High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions _Gleyed or Low Chroma color ___ Aquic Moisture Regime Landscape position: Approximate slope: convex Remarks; Soils disturbed due to active ag on advant feld HYDROLOGY Recorded Data (Describe in Remarks) **Field Observations** No Recorded Data Available Ground Surface Inundated inches Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water_ Depth to Saturated Soils_ inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey **Drift Lines** Morphological Plant Adaptations Sediment Deposits ____ Other (Explain in Remarks) _ Drainage Patterns in Wetland Remarks: s:\edr office files\forms\Data Form Routine Wetland Determination.xls

_4	61			
Project Number: Applicant:	05030 Horse Creek Wind		Date: Plot ID Number: \(\text{\text{\$\lambda}}\)	11/5/07
				3.884
1 Hay	nant Plant Species:	Stratum: (circle one) H S/S T V	Indicator: FA(M	% Cover. \6 6 \10
2		H S/S T V		<i>H</i>
3		H S/S T V		
4		H S/S T V		
5		H S/S T V	•	
6		H S/S T V		
7		H S/S T V		
8		H S/S T V		
9		H S/S T V		1,
		H S/S T V		
	0	H S/S T V		
		H S/S T V		
	The state of the s	H S/S T V	2	
		H S/S T V		
		H S/S T V		
		H S/S T V		
Percent of Dominant	Species OBL, FACW, FAC	Perce le Applied? (es) No	ent of Dominant Species OBL,	facw_ O _
Remarks;	Non hydrophyt			
VETLAND DETERN	INATION		, 2 ₁ = 1	
Hydrophytic Vegetati		Hydric Soils Present?	Yes or No	
Wetland Hydrology P	2	Is this Sampling Point Within		(No.)
	vity to Off-site Wetlands? Yes or No	ls this Wetland Potentially Isol		
	Not a wetlent			

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Project No: Applicant: Horse Creek Wind Date: Town: Trembar Investigator, Pippin/Otto County: NY State: Do normal circumstances exist on site? Community: Is the site significantly disturbed? Transect/Flag 1D: Is the area a potential Problem Area? Plot ID: SOILS WD MWD SPD PD VPD Drainage Class: Confirm Mapped Type: Depth Texture, Structure, Other Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Approximate slope: Landscape position: convex undulating Remarks: HYDROLOGY Field Observations Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface Inundated_ Soil Saturated. Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water Depth to Saturated Soils inches. Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) ✓ Drainage Patterns in Wetland Remarks: Hummocky s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 05030 Applicant: Horse Creek Wind		Date: Plot ID Number:	11/6/07 1NSP-TT
Dominant Plant Species: 1	Stratum: (circle one) H S/S T V H S/S T V	Indicator: OBC OBC FACW+ FACW/OBL FACW/OBL FACW/OBC FACW	% Cover: 50 20 10 10 10 250 25
Percent of Dominant Species OBL, FACW, FAC 1000 50/20 Rule	Perce c Applied? (Ye) No	ant of Dominant Species OBL	, FACW/DD 96
Remarks: VETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within is Is this Wetland Potentially Isol	~	ρr No Δr No

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual Project No: 05030 Applicant: Horse Creek Wind Date: Town: Trembatt Investigator: Pippin/9-14-the County: State: NDF Do normal circumstances exist on site? Community: Wetland Is the site significantly disturbed? Transect/Flag ID: USP-TT Is the area a potential Problem Area? Plot ID: SOILS Guffin clay Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: Texture, Structure, Other Depth Horizon Mottle color/abundance 10423/2 Silt- class Nono. B Noire Hydric Soil Indicators: ___ Listed on Local Hydric Soils List Histisols Concretions Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Approximate stope: Landscape position: Remarks: No hydric soil indicators noted. HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Soil Saturated. Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Water_ Depth to Saturated Soils_ inches Wetland Hydrology Indicators: **Primary Indicators** Secondary Indicators (2 or more required) ____ Oxidized Root Channels in upper 12 inches Inundated Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey **Drift Lines** Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks: No wetland hydrology noted. s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: Applicant:	05030 Horse Creek Wind		Date: Plot ID Number:	11/6/07 USP-TT
EGETATION				
Domi	nant Plant Species:	Stratum; (circle one)	Indicator:	% Cover:
1	er onk	H S/S (T) V	FAC-	90
2 5,	yar maple	_ н s/s (т) v	FACU-	10
3		H S/S T V		
4 Bu	ar ock	н Sys т v	FAC-	40 -
5 · \$1	uger maple	H (S/S) T V	FACU-	20 -
6		H S/S T V	0	
7	700.8	H S/S T V	W. 47. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	
8		H S/S T V		17
9		H S/S T V	M = M	(3)
		H S/S T V	*	X 1 7
11		H S/S T V		, A
12		H S/S T V		
13		H S/S T V	***	
14		H \$/\$ T V		
15		H S/S T V	1 -	
16		II S/S T V	* 1	
	Marra	Rule Applied? (Yes) No	dense canopy	
		Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso		s or No (ALA)

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Project No:	05030	Applicant: Hors	e Creek Wind Power Pr	oject	Date:	4/17/2008
					Town:	Clayton
Investigator	Pippin /	chwaben baner			County:	Jefferson
	-/	CHW-WEIT DOWNER			State:	NY
			~	************************		
Do normal o	circumstances e	cist on site?	s)No	Communi	ity. Upland SSI	meadow
Is the site si	gnificantly distu	rbed? Ye	s (No)	Transect/Flag l	D: 51-30	
Is the area a	potential Proble	em Area? Ve	× × × ×	Plot	D: Upland Si	5-1
25 110 110 11	. poseubor r roun		s (%)		Ogridia O	
SOILS	1					
	CCI	B) C/	- + oitto	101		2
Series and I	Phase: ()	2) Chaun	nt sitty (in g	Drainage Class: \	nd mindsended and
Subgroup:	Acri	c Ochrag	ualfs		Confirm Mapped Type:	(Yes No
Depth	Horizon	Matrix color	Mottle color/abund		Texture, Structure, Other	
<i>Д</i> _ / .	HOUSEN	1 1		ance		E AR
0-6	H	2.5Y 3/2	None		Silt loa	
6+	B	Z.5 Y 3/2	10YE S	8	Silt cla	y loam
	100					/
						-
Hydric Soil	Indicators:					
Histisol	ls ·	Concretions		_	Listed on Local Hydric Soils I	List
Histic F	Epipedon	High Org. Conten	t in Surface Layer of Sandy	Soils	Listed as Potential for Hydric	Inclusions Only
Sufidic	Odor	Organic Streaking	in Sandy Soils	9	Other (Explain in Remarks)	<u>c</u>
Reduci	ng Conditions	_x Gleyed or Low Ch	nroma color	-	Aquic Moisture Regime	
	7.5					•
Landscape	position:	flat	undulating	slopi	ngApproximate s	lope:
		11811	unousung	 -		
			***************************************	140 C 250 C 40 1 40 1 40 1 40 1 40 1 40 1 40 1 4	***************************************	***************************************
Remarks:	Hudris	c Soil (haracteristic	S Presen	+	
	, ,			,		
						·
IYDROLOGY	- 10					
_	_Recorded Dat	a (Describe in Remarks)	Fiel	d Observations		
		No Recorded Data Availa	ble	Ground Sur	face Inundatedinc	bes.
		Stream, Lake or Tide Gau	ge	Soil Satural	ed	
		Aerial Photographs	Den	th to Free Water 71	7. inches	. ,
			Dep	th to Saturated Soils_	TIL mches.	
Wetland Hy	drology Indicat		Name of the State		1. T. V.	
	Primary Indic		Seco	ndary Indicators (2 or	(2) E	
	InundatedOxidized Root		oot Channels in upper 12 inches	- 9		
	Water Marks Local Soil Surve					
	•		cal Plant Adaptations			
	· -	Sediment Deposits			ain in Remarks)	
		Drainage Patterns in Wetl	and			
*******		******************	**************************************			
Remarks:						
	No	hydrology	Present			
		5.0.94	1,000[[]			
\edr office fil	es\forms\Da	ata Form Routine W	etland Determination	ı,xls		Y-

Project Number; 05030 Applicant: Horse Cre	ek Wind Power Project				-	Date; Plot ID Number	-	/17/2008 and Sp-1
3 American	Elm		SAS TO SA	v v v v v v v v v v v v v v v v v v v		Indicator: NL FAC FACW- FAC/FAC		% Cover: 10 10 10 30
Percent of Dominant Species OB	L, FACW, FAC_ <u>80</u> % 50/20 Rule Appli	ed?	Yes		Percen	of Dominant Spec	cies OBL, FAC	:w_20%
Remarks: Non	hydrophytic vegeta	tion	f re	sent	L .			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Wetland Hydrology Present? You Hydrologic Connectivity to Off-si Remarks: No 4	s or to	Is this 5	Soils Pres	Point W	Vithin a	Yes or No Wetland? ed? Photo Reference N	Yes or No Yes or No Jumber:	

Observer: Name: JRP 1315	Project 1	Wind			
Weather: Clear - Sunny 70° + 10-20 mph 5 wind	Number:_	05	030	Date:_	04/17/08
Stream Name: Stream within delineated U					
Stream Location (nearest road, structure, etc.):					
Adjacent Community: upland meadar			5	-	
Stream Gradient - gentle			£		
Bank Width: >201				246	
Stream Width: 5-81					
Water Depth: 81 121					
Substrate: - Bed Rock - Boulder - Cobble - Gravel - Sand - Silt - Clay	ş"				
- Silt					
Instream Cover: - Undercut bank - Overhanging vegetation - Logs/woody debris - Deep pools - Other	*				
Flow: - Permanent Intermittent			e a		
Photo #					
Additional Comments:		-			
soils = (GV) Guttin day				2 8	
		- 4			4
	_			-	****

							3
0₹							
	*						
¥							
						8	
(9)							
							(*)
		20					
	e 3						
	w						
				*			
			8				
9		3		I v l			

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

1987 COE Wetlands Delineation Manual

Project No: 05030	Applicant	Horse Creek Wind	Power Project	Date:	4/17/2008
				Town:	Clayton
Investigator. Pippin				County:	Jefferson
				State:	-NY
Do normal circumstances	exist on site?	(Fee No	Communi	n: PSS	
Is the site significantly dis	sturbed?	Yes (No)	Transect/Flag I	D: 57-18	
Is the area a potential Pro		Yes (No)	Plot I		maling Point #1
sons					
Series and Phase:	P) Covin	aton SI	Hy clay	Drainage Class:	WD MWD SPD PD YPD
n		hraqu	17		A .
Subgroup: ///	VIIIC OC	magn	MIS	Confirm Mapped Type:	Yes do
Depth Horizon	Matrix color		color/abundance	Texture, Structure, Other	
D-+ A	2547	N ₁		Silt	Clay
7* B	2.54 2.7	Some	10YR 5/8	(lay	
				1	
			***	1	*
Hydric Soil Indicators:					***
Histisols	Concretions			_ Listed on Local Hydric Soils	
Histic Epipedon		Content in Surface Lay	er of Sandy Soils	Listed as Potential for Hydric	: Incresions Only
Sufidic Odor		eaking in Sandy Soils	· -	_ Other (Explain in Remarks)	-5
Reducing Conditions	Mileyed or L	ow Chroma color	-	Aquic Moisture Regime	
Remarks:	flat		ulating		
Recorded I	oata (Describe in Reman No Recorded Data a Stream, Lake or Tid Aerial Photographs	Available	Field Observations Yes Ground Suri		thes.
			Depth to Free Water	inches.	
			Depth to Saturated Soils	O_inches.	
Wetland Hydrology India					
Primary Ind	icators Inundated		Secondary Indicators (2 or a	more required) of Channels in upper 12 inches	
_	Saturated in upper 1	2 inches.	Water-Stain		
Water Marks Local Soil Survey					
_	Drift Lines			al Plant Adaptations	
_	Sediment Deposits		Other (Expla	in in Remarks)	
	Drainage Patterns in	Wetland			
Remarks:					***************************************
		y P			
1 60 61 15					
ledr office files\forms\l	Jata Form Routin	e vvetland Dete	rmination.xis		

Project Number: Applicant:	05030 Horse Creek Wind Powe	r Project			Date: Plot ID Number: We	4/17/2008 Hard SP-1
1 Red 2 3 Russy 4 Silky 5 Grau 6 7 Wool 8 Sed 9 Tush 10 11 12 13	es	H H H H H H H	S/S T		Indicator: FACW FACW FACW FACW FACW/OBL	% Cover: 25 40 30 10 20 70 70
Percent of Domina	nt Species OBL, FACW, FAC_	50/20 Rule Applied?	fes)No	Perce	ent of Dominant Species OBL,	FACW_63%
	ation Present? Yes or No	Is this	Soils Preser Sampling Po	int Within	_	or No

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Project No: 05030 Applicant: Horse Creek Wine	ad Power Project Date: 4/17/2008
	Town: Clayton
Investigator. Pippin	County: Jefferson
The state of the s	State: NY
Do normal circumstances exist on site? Yes No	Community: Usland SS/Meadow
Is the site significantly disturbed?	Transcet/Flag ID: 58-18
Is the area a potential Problem Area? Yes No	Plot ID: Upland Sampling Point-1
B die alea a Potentia Problem Alea?	FIREM. Upland SUMPHING TOTAL
ons (co. 5	
Series and Phase: (CP) Covington S	Ity clay Drainage Class: WD MWD SPD PD YPD
Subgroup: Mollic Ochraqua	Confirm Mapped Type: (Ye) No
. 1	e color/abundance Texture, Structure, Other
- V V - P - V	
6+ B 2,542.9, Fairt	- love 1/8 Clay
Hydric Soil Indicators:	Timed on Taxal Madria Calle Link
Histisols Concretions Histic Epipedon High Org. Content in Surface Lay	Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only
Sufficie OdorOrganic Streaking in Sandy Soils	
	Aquic Moisture Regime
- Your of the or	
Landscape position: concave	convex sloping Approximate slope:
	dulating Approximate stope.
1101	outemb _E
Remarks:	
bydric Chameteri	istics tresent
I^*	
DROLOGY	
Recorded Data (Describe in Remarks)	Field Observations
No Recorded Data Available	Ground Surface Inundated inches.
Stream, Lake or Tide Gauge	Soil Saturated.
Aerial Photographs	Depth to Free Water inches.
	Depth to Saturated Soils inches.
Wetland Hydrology Indicators:	
Primary Indicators	Secondary Indicators (2 or more required)
Immdated	Oxidized Root Channels in upper 12 inches
Saturated in upper 12 inches.	Water-Stained leaves
Water Marks	Local Soil Survey
Drift Lines	Morphological Plant Adaptations
Sediment Deposits	Other (Explain in Remarks)
Drainage Patterns in Wetland	
Remarks: 1	
hummocks.	
edr office files\forms\Data Form Routine Wetland Dete	

Project Number: 05030 Applicant: Horse Creek Wind Power Project		Date: 4/17/2008 Piot ID Number: Sg-18 US P-1
Dominant Plant Species: 1 Red Maple 2 3 Gray dogwood 4 5 Solidago Sp. 6 Aster Sp. 7 Orchard grass 8 9 10 11 12 13 14 15 16	Stratum: (circle one) H S/S T V H S/S T V	Indicator: %Cover: FAC 45 FAC 90 FAC/FACU 20 FAC/FACU 20 FACU
Percent of Dominant Species OBL, FACW, FAC BO % 50/20 Rule Ap		ent of Dominant Species OBL, FACW D
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks: Not a wetland.	Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso	

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

Project No: 05030 Applicant: Horse Creek Wind Power Project	Date: 4/22/2008
	Town: Clayton
Investigator: Pippin/Schwabenbauer	County: Jefferson
	State: NY
Do normal circumstances exist on site? (Yes) No Commu	mity: PFO
Is the site significantly disturbed? Yes No Transect/Fla	***
	Wetland Sampling Point #1
Sorts Series and Phase: (KgA) Kingsburg Silty Clay Subgroup: Acric ochra qualfs Depth Horizon Matrix color Mottle color/abundance	Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: Yes No Texture, Structure, Other
0-6 A 2.54 3/2 None	SILT Clau
6+ B 2.54 3/2 Some/ distinct 104R5	18 Clay
Histic EpipedonHigh Org. Content in Surface Layer of Sandy SoilsSuffice OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color Landscape position: convex slo	Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Aquic Moisture Regime sping Approximate slope:
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Field Observations	
	urface Inundatedinches.
Stream, Lake or Tide Gauge Aerial Photographs Soil Satur	aled.
Depth to Free Water	(o_inches.
Depth to Saturated Soils	inches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators (2 of	or more required)
	Root Channels in upper 12 inches
	ained leaves
Water Marks Logal Soil Drift Lines Morpholo	Survey gical Plant Adaptations **
	plain in Remarks)
Drainage Patterns in Wetland	
Remarks:	
* Hummocks	
s:\edr office files\forms\Data Form Routine Wetland Determination.xls	

Project Number:	05030		Date:	4/22/2008
Applicant	Horse Creek Wind Power Project		Plot ID Number: W:	SP # 1
· · · · · · · · · · · · · · · · · · ·				2.40
VEGETATION	NI Ci	Company	Indicator:	% Cover:
	nant Plant Species:	Stratum: (circle one)	FACW	20· —
	grass charles		FACU	
	strawberry	(B) S/S T V	FACU	
	Canany grass	(H) S/S T V	FACU+	48
4 Soft	rush	H S/S T V	FACUL	
5 thin	leaf golden od	OB S∕S T V	FAC	
6	<u> </u>	H S/S T V		
7 Silky	dogwood	H STS T V	FACW-	40 =
8 Salix	50.	H SS T V	FACW/OBC	50
9	1	H S/S T V		
10 Cel	Maple	H S/S (T) V	FAC	80 -
11 7 100	n Ash	H S/S (T) V	FACW	20 -
12	-S. 40K	H S/S T V		
*			A \$	
		H S/S T V	* (***********************************	·
		H S/S T V		
16		H S/S T V		
Percent of Domina	nt Species OBL, FACW, FAC B6%	Perc	cent of Dominant Species OBL,	FACW_7/90
	50/20 Rule Ap			
***************************************			······································	
Remarks:				
2 1 1/				
WETLAND DETER	RMINATION			
*	ation Present? Yes or No	Hydric Soils Present?	XES Dr No	
	Present? Xesor No	Is this Sampling Point Within	Cure.	· No
Remarks:	tivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Iso	Photo Reference Number:	110
	W			

DATA FORM ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delimention Manual

274 North Goodman Street Rochester, New York 14607

Project No: 05030 Applicant: Horse Creek Wind I	Power Project Date: 4/22/2008
7	Town: Clayton
Investigator: Pippin/Schwabenbauer	County: Jefferson
	State: NY
Do normal circumstances exist on site? Yes No	community: upland Ag. field (Action
Is the site significantly disturbed? Yes No	Transect/Flag ID: ULL-Co
Is the area a potential Problem Area? Yes No	Plot D: upland Sampling Point
1 3	the contract several forth
ons .	
(KnA) Vunach	City clay Drainage Class: WD MWD SFD PD VPD
Series and Phase: (191) KIRS BURY	Coffy CICCY Drainage Class: WD MWD SPD PD VPD
Subgroup: AEric Ochragua	1 Confirm Mapped Type: (YD)No
Depth Horizon Matrix color Mottle co	olor/abundance Texture, Structure, Other
Hydric Soil Indicators:	
Histisols Concretions	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface Layer	
Tilbut Epipeson Tilga Otg. Content in Surface Layer	
	Other (Explain in Remarks) Aquic Moisture Regime
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Sufidic OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color	Other (Explain in Remarks)
Sufidic OdorOrganic Streaking in Sandy Soils Gleyed or Low Chroma color	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate slope:
Suffidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate slope:
Sufidic OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color	Other (Explain in Remarks) Aquic Moisture Regime avex sloping Approximate slope: ating
Sufidic OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color	Other (Explain in Remarks) Aquic Moisture Regime avex sloping Approximate slope: ating
Sufidic OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color	Other (Explain in Remarks) Aquic Moisture Regime avex sloping Approximate slope: ating
Sufidic OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks) Aquic Moisture Regime nvex sloping Approximate slope: ating
Suffidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conduction Remarks: Soils disturbed	Other (Explain in Remarks) Aquic Moisture Regime avex sloping Approximate slope: ating
Suffidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conduction Remarks: Soils disturbed	Other (Explain in Remarks) Aquic Moisture Regime avex sloping Approximate slope: ating
Suffidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conductions Remarks: Soils disturbed DROLOGY	Other (Explain in Remarks) Aquic Moisture Regime sloping Approximate slope: ating
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave con flat undula Remarks: Soils disturbed DROLOGY Recorded Data (Describe in Remarks)	Other (Explain in Remarks) Aquic Moisture Regime novex sloping Approximate slope: ating L due to Active Aq. Field Observations
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conflat undula Remarks: Soils disturbed DROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available	Other (Explain in Remarks)Aquic Moisture Regime InvexslopingApproximate slope: ating Approximate slope: Approximate slope: Field ObservationsGround Surface ImmdatedinchesSoil Saturated.
Sufidic Odor Organie Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conflat undula Remarks: Soils disturbed Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Other (Explain in Remarks)Aquic Moisture Regime arrexslopingApproximate slope: ating Representations Ground Surface InundatedinchesSoil Saturated. Depth to Free Waterinches.
Sufidic Odor Organie Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conflat undula Remarks: Soils disturbed Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Other (Explain in Remarks)Aquic Moisture Regime InvexslopingApproximate slope: ating Approximate slope: Approximate slope: Field ObservationsGround Surface ImmdatedinchesSoil Saturated.
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: concave conflat undula Remarks: Soils disturbed Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge	Other (Explain in Remarks)Aquic Moisture Regime arrest
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave coundula Remarks: Soils disturbed PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Other (Explain in Remarks)Aquic Moisture Regime InvexslopingApproximate slope: ating Approximate slope: ating Field ObservationsGround Surface InundatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave Conditions Remarks: Soil Salitation Remarks: No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated	Other (Explain in Remarks)Aquic Moisture Regime arrowsslopingApproximate slope: ating Picld ObservationsGround Surface InundatedinchesSoil Saturated Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inches
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave conductions Remarks: Soil Salitation Remarks: No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators	Other (Explain in Remarks)Aquic Moisture Regime arrowsslopingApproximate slope: atting Field ObservationsGround Surface InundatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leaves
Suffict Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave conditions Remarks: Soil Sala Gleyed or Low Chroma color Concave conditions Finat undulated Stream, Lake or Tide Gauge Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks	Other (Explain in Remarks)Aquic Moisture Regime arrowsslopingApproximate slope: atting Field ObservationsGround Surface InundatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leavesLocal Soil Survey
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave conditions Remarks: Soil S disturbed Remarks: No Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Other (Explain in Remarks)Aquic Moisture Regime aringApproximate slope: aringApproximate slope: Field ObservationsGround Surface InundatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leavesLocal Soil SurveyMorphological Plant Adaptations
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave conflat undula Remarks: Soil S Siffurbes PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines Sediment Deposits	Other (Explain in Remarks)Aquic Moisture Regime arrowsslopingApproximate slope: atting Field ObservationsGround Surface InundatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leavesLocal Soil Survey
Sufidic Odor Organic Streaking in Sandy Soils Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave conflat undula Remarks: Soil Saliffurbes PROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Acrial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper 12 inches. Water Marks Drift Lines	Other (Explain in Remarks)Aquic Moisture Regime arrowsslopingApproximate slope: atting Field ObservationsGround Surface ImmdatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leavesLocal Soil SurveyMorphological Plant Adaptations
Sufidic Odor	Other (Explain in Remarks)Aquic Moisture Regime aringApproximate slope: aringApproximate slope: Field ObservationsGround Surface InundatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leavesLocal Soil SurveyMorphological Plant Adaptations
Sufficie Odor	Other (Explain in Remarks)Aquic Moisture Regime slopingApproximate slope: ating Region
Sufficie Odor	Other (Explain in Remarks)Aquic Moisture Regime arrowsslopingApproximate slope: atting Field ObservationsGround Surface ImmdatedinchesSoil Saturated. Depth to Free Waterinches. Depth to Saturated Soilsinches. Secondary Indicators (2 or more required)Oxidized Root Channels in upper 12 inchesWater-Stained leavesLocal Soil SurveyMorphological Plant Adaptations

	-					
Project Number:	05030					Date: 4/22/2008
Applicant:	Horse Creek Wind Power Project			1		Plot ID Number: USP #1
L	7.1					
VEGETATION						
posterior and a second	nant Plant Species:	51	ratun:	(circle	(see	Indicator: % Cover:
1		_		T	viic)	FACIFACU 100
- 16	Hay	CH)	100000			1119111111 10
2		н	S/S	Т	v	
3		H	S/S	T	V	
4		H	S/S	T	V	
5		H	S/S	T	V	
6		H	S/S	T	V	· ·
		н	S/S	T	v	
		н	S/S	Т	Y	
		н	S/S	т	v	-
	· ·	н	S/S	T	v	
				- Cheev		
		H	S/S	T	V	
12		H	S/S	T	V	
13	-	H	S/S	T	V	
14		H	S/S	T	V	
15		н	S/S	T	v	
16		н	S/S	T	v	
	11 39					
Percent of Dominar	nt Species OBL, FACW, FAC	***************************************				Percent of Dominant Species OBL, FACW
	50/20 Rule Ap	oliad?	Ye	3		
	SO/20 Rule Ap	=		2110		
			AL DICK SURVINI		***********	(42-14-14-14-14-14-14-14-14-14-14-14-14-14-
Remarks:	1 1100 11.					
	Active Hay field	4				
						*
Z. Salana						
WETLAND DETER						
	tion Present? Yes or No	Hydric	c Soils	Presc	nt?	Yes or No
Wetland Hydrology	Present? Yes or 10	Is this	Sampl	ing P	oint W	fithin a Wetland? Yes of No
	tivity to Off-site Wetlands? Yes or No	Is this	Wetlan	id Po	tentiall	ly Isolated? Yes or No
Remarks:						Photo Reference Number:
	1 1	1	. 1 1			
	Active Hay	716	210	,		

s:\edr office files\forms\Data Form Routine Wetland Delineation.xis

Environmental Design & Research 217 Montgomery Street, Suite 1000

DATA FORM 274 North Goodman Street ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual Rochester, New York 14607 Syracuse, New York 13202

Project No: 05030 Applicant: Horse Creek Wind Power Project	Date; 4/22/2008
	Town: Clayton
Investigator: Pippin/Schwabenbauer	County: Jefferson
	State: NY
Do normal circumstances exist on site? Yes No Community	PSS/PFO/RUP
Is the site significantly disturbed? Yes (No) Transect/Flag ID	<u> </u>
Is the area a potential Problem Area? Yes (No) Plot ID	Wetland Samphing Point #1
Is the area a potential Problem Area? Yes No Plot ID	WETTER PART TOTAL
Soils Series and Phase: (CP) Counciton Silty Clay Subgroup: Mollic Ochragual S Depth Horizon Matrix color Mottle color/abundance O-6 O N/A N/A Hydric Soil Indicators: Histics Epipedon	Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: Ye No Texture, Structure, Other Organic Stiff (Jay Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Aquic Moisture Regime Approximate slope:
Remarks: High organic dark mucky soils.	
HYDROLOGY	
Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water M A Depth to Saturated Soils N	inches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators (2 or mo	re required)
	Channels in upper 12 inches
Saturated in upper 12 inches Water-Stained	
Water Marks Local Soil Sur	
	Plant Adaptations
Sediment Deposits Other (Explain	
Drainage Patterns in Wetland	
Remarks:	
* hummocks	
s:\edr office files\forms\Data Form Routine Wetland Determination.xls	
	······································

Project Number: Applicant:	05030 Horse Creek Wind Power Project		Date: 4/22/2008 Plot ID Number: 4/25 + 1
1 Catta 2 Recol 3 Solida 4 5 SaliX 6 SaliX 7 8 Black 9 Green	inant Plant Species: il Canary grass go Sp1 Sp2 - Willow Ash	Stratum: (circle one) B S/S T V B S/S T V B S/S T V H S/S T V	Indicator: % Cover: DBL 50 - FACW + 30 - FAC/FACW 20 - FACW/OBC 80 - FACW/OBC 20 - FACW+ 25 - FACW+ 25 -
11 12 13 14 15 16	nt Species OBL, FACW, FAC		ent of Dominant Species OBL, FACW_86%
Remarks:			
		Hydric Soils Present? Is this Sampling Point Within Is this Wetland Potentially Iso	

DATA FORM ROUTINE WETLAND DETERMINATION

274 North Goodman Street Rochester, New York 14607

NE WETLAND DETERMINATION
1987 COE Wetlands Delineation Manual

Project No: 05030 Applicant: Horse Creek Wind Power Project	Date:	4/22/2008
	Town:	Clayton
Investigator: Pippin/Schwabenbauer	County:	Jefferson
	State:	YY
Do normal circumstances exist on site? (Yes) No Community:	Uplacel	(old hay field)
Is the site significantly disturbed? Yes 😥 Transect/Flag ID:	VV-1	
Is the area a potential Problem Area? Yes 10. Plot ID:	upland:	Sampling Point #1
SOILS . C		
Series and Phase: (CIA) Chaumont Silty clay Subgroup: Acric Ochraquaits	Drainage Class:	WD MWD SPD PD VPD
Subgroup: Acric Ochraqualts	Confirm Mapped Type:	A
		(19) 110
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other	
	140	
Hydric Soil Indicators:		1-1-
	Listed on Local Hydric Soi Listed as Potential for Hyd	
	Other (Explain in Remarks	
	Ouici (Explain in Remails Aquic Moisture Regime	,
		2
Landscape position: concave convex sloping	Approxima	te slope:
flat undulating		×
Remarks: Soils disturbed due to Ag-	noeration.	
Soils onstarout que to ig-	01	

Recorded Data (Describe in Remarks) Field Observations		
No Recorded Data Available Ground Surface	Inundated	inches.
Stream, Lake or Tide Gauge Soil Saturated.		
Aerial Photographs		
Depth to Free Water	inches.	
Depth to Saturated Soils	inches.	av I s
Wetland Hydrology Indicators:		
Primary Indicators Secondary Indicators (2 or mon		- V
InundatedOxidized Root 0Saturated in upper 12 inches Water-Stained let	Channels in upper 12 inche	3
Water Marks Local Soil Surve		
	lant Adaptations	
Sediment Deposits Other (Explain i	n Remarks)	
Drainage Patterns in Wetland		
Remarks:		
	- Spring	Cour melt
Soils Saturated done to recent	37117	2710W PICT.
		8
edr office files\forms\Data Form Routine Wetland Determination.xls		

Project Number:	05030	11				Date:	4/22/2008
Applicant:	Horse Creek Wind Power Project					Plot ID Number: U.S	

VEGETATION							
Domin	nant Plant Species:	Str	return; ((circle (ine)	Indicator;	% Cover:
1H	lay	H) s/s	T	v	FAC/FACU	100
2	1	н	S/S	T	v	,	
3		н	S/S	T	v	>	
		н	S/S	T	v	<1	
5		H	S/S	T	v		
		н	S/S	T	v	p.	> 1
		н	S/S	T	v		
		н	S/S	T	v		
		н	S/S	Т	v		
	3.00	H	S/S	T	v	8	
		Ħ	S/S	T	v		
		н	S/S	T	v		F.
		н	S/S	T	v		
W. 1		н	S/S	T	v		
		н	S/S	r	v		a a
		н	S/S	T	v		
Percent of Dominant	nt Species OBL, FACW, FAC 7	Applied?	Yes	S No	Per	rcent of Dominant Species OBL, F.	acw_ _
Remarks:	lay field - ina	ctive	N	2	ye.	ars.	
WETLAND DETER	ATNATION	-			- resident	1	
Hydrophytic Vegetat		Hydric	Soils	Presc	nt?	Yes of No	* x
	Present? (Yes or No					in a Wetland? Yes or	x 6)
	ivity to Off-site Wetlands? Yes or No				tentially ls		
Remarks:					***************************************	Photo Reference Number:	444.000.044444.000.000.000.000.000.000.
	Upland - OU	hay s	fie.	Id.			

s. edi office filesiforms Data Form Routine Wetland Delineation xis

Observer:	Project Information: Name: Horse Creek Wind
Name: Pippin Schwaberbauer Weather: Clear Worm 75°F Wind SW 10 mp	Number: 05030 Date: 04/22/0
Stream Name: Horse Creek	- Stream passes through deliniented wetland VV
Stream Location (nearest road, structure, etc.): Stephen Magy Property Miller Adjacent Community: Aq. Fix IdS	eard (wetlend VV)
Adjacent Community: Ag. Fix 1d5	Poace (william)
Stream Gradient - gentle	
- steep	
Bank Width: 5'	
Stream Width: 3'	
Water Depth: 10 11	
Substrate: - Bed Rock - Boulder - Cobble - Gravel - Sand - Silt	
- Silt - Clay	
- Logs/woody debris	*willow Shrubs
- Deep pools	
Flow: - Permanent	
Photo #	
Additional Comments: Horse creek a discreet gith some greas	long this Stretch is very
base flow channel substantial associated with Horse ci	+ (rodplan / liparia wetlands
Soils = (Cp) Covington silty clay	

		*				
× .						
					8 70	
	,					
					w×	
			#			
			20.			
					*	
	1 .					
38						2
			*			
				9		
						8

247 Montgomo	l Design & Research		DATA CODE		274 North Goodman Street
	ry Street, Suite 1000		DATA FORM	NATION	274 North Goodman Street Rochester, New York 14607
Syracuse, New	York 13202	THE PROPERTY OF THE PARTY OF TH	WETLAND DETERMI		Rochester, New York 14007
*			and Northeast Regional Supp		
Project Number	r: 05030	To	wn: Clayton	Sampling Dal	e:
		Cour	nty: Jefferson		, , ,
Applicant:	Horse Creek Wind Farm		ale: New York	Community:	Wet Merlan
D. I. D. I. IID.	(I.e. 2W@Wet. G): [W @]	WW Quillely	Nearest Flag to Data	Point: WW-	-10
Data Point ID (i.e. 200@vvet. G):	140,000	Mediest Flag to Date		
	<u> </u>	^			Section (Control of the Control of t
Investigator(s):	lippin / Low	and			
ANY DESCRIPTION OF STREET AND ADDRESS AND	11			rea a potential proble	em area? Yes No
Landform: H	IllsIde/Seep Toe of Slope	Depressional Riparian			bed? Yes No
a consultation of the second			Is the s	Ite significantly distur	bed? Tes No
Landscape Pos	sition: Flat Undulating Slop	oing Convex Concave	Anneau	Imate Slope (%):	1-79n
P				mate otope (70).	<u>0 C (0</u>
Are climatic/hyd	drologic conditions on the site typ	olcal for this time of year?	Yes No		
		١.,,			
Do Normal Circ	cumstances exist on site? Yes) No			
Hydrology					
					200 and and an analysis of the control of the contr
D. torres - Deadles	tour fouls of specificade about	all that annial			Secondary Indicators (min 2 required)
Surface Wa	ators (min 1 required; check	an mat apply)			Surface Soil Cracks (B6)
	Table (A2)	Water	-Stained Leaves (B9)		Drainage Patterns (B10)
Saturation			ic Fauna (B13)		Moss Trim Lines (B16)
Water Mark			Deposits (B15)		Dry-Season Water Table (C2)
	Deposits (B2)		gen Sulfide Odor (C1)		Crayfish Burrows (C8)
Drift Depos		Oxidiz	ed Rhizospheres on Livin	g Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	r Crust (B4)	Prese	nce of Reduced Iron (C4)		Stunted or Stressed Plants (D-1)
Iron Deposi		Recer	nt Iron Reduction in Tilled	Soils (C6)	Geomorphic Position (D2)
	Visible on Aerial Imagery (B7)	Thin N	Auck Surface (C7)		Shallow Aquitard (D3)
	egetated Concave Surface (B8)	Other	(Explain in Remarks)		Microtopographic Relief (D4)
					FAC-Neutral Test (D5)
e roman um apromio a consciono de la consciona			THE REPORT OF THE PERSON AND THE	Search State State Control	
	<u>, , , , , , , , , , , , , , , , , , , </u>			1/	
Field Observa	tions				
1 1 . IV Dec		Ma	Donth of Water (Incl	1001 C-611	
Inundation Pres	sent? Yes_V	No	Depth of Water (Incl		
Inundation Pres Saturated Cond	sent? Yes_V	No	Depth to Sat. Soil (in	iches): 0	
	sent? Yes_V	No		iches): 0	
	sent? Yes_V	No	Depth to Sat. Soil (in	iches): 0	
Saturated Cond	sent? Yes V ditions? Yes V	No	Depth to Sat. Soil (in	iches): 0	
Saturated Cond	sent? ditions? Yes V cteristics	No	Depth to Sat. Soil (in Depth to Water (incl	iches): 0	Elow
Saturated Cond	sent? Yes V ditions? Yes V	No No	Depth to Sat. Soil (in	nes): 0	Flow;
Saturated Cond	sent? ditions? Yes V cteristics	No	Depth to Sat. Soil (in Depth to Water (incl	iches): 0	NOTICE TO A DAY TO THE YEAR
Saturated Cond Stream Chara Stream type: Perennial	sent? ditions? Yes Ves Cteristics Morphology: Bank Width	No Stream Gradient: Gentle	Depth to Sat. Soil (in Depth to Water (incl	nes): 0	No Flow
Saturated Cond Stream Charac Stream type:	sent? ditions? Yes Ves Cteristics Morphology: Bank Width Stream Width	Stream Gradient: Gentle Moderate	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder	SandSilt	No Flow Gentle
Saturated Cond Stream Chara Stream type: Perennial	sent? ditions? Yes Ves Cteristics Morphology: Bank Width	No Stream Gradient: Gentle	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble	nes): 0	No Flow Gentle Moderate
Saturated Cond Stream Charac Stream type: Perennial Intermittent	cteristics Morphology: Bank Width Stream Width Water Depth	Stream Gradient: Gentle Moderate	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder	SandSilt	No Flow Gentle
Saturated Cond Stream Chara Stream type: Perennial	cteristics Morphology: Bank Width Stream Width Water Depth	Stream Gradient: Gentle Moderate	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble	SandSilt	No Flow Gentle Moderate
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes V Yes Cteristics Morphology: Bank Width Stream Width Water Depth munity Type:	Stream Gradient: Gentle Moderate	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble	SandSilt	No Flow Gentle Moderate
Saturated Cond Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes V Ye	Stream Gradient: Gentle Moderate Steep	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay	No Flow
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: ittons: Obscurred Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	SandSiltClay	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: ittons: Obscurred Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	SandSiltClay	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy
Stream Charac Stream type: Perennial Intermittent Adjacent Community Commun	sent? ditions? Yes Ves Ves Cteristics Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Stream Gradient: Gentle Moderate Steep Deep Poo	Depth to Sat. Soil (in Depth to Water (incl Substrate; Bed Rock Boulder Cobble Gravel	Sand Silt Clay Overhanging Vegetated Cl	No Flow Gentle Moderate Heavy

-		Sa	ampling Date: (B/W/10 ata Point ID: (WO Wefful ww
-		D	I was was
Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Wata 2 (A)
			Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are ORL FACW or FAC: The Area ORL FACW or FAC
			That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
	= Total Cover		OBL species
_			UPL species
			Liedsieure lines - DIV -
	= Total Cover		Hydrophytic Vegetation Indicators: Repld Test for Hydrophytic Vegetation
60	405	taw 661	Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and wetland hydrology must be present,
15	NB	talu fra co	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 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. Remarks
	= Total Cover		present sporadically throughou
			un elges in some places.
			laye notes of colling blan
	% Cover 60 50 15 15	# Total Cover # Yes # Ye	Absolute Species? Indicator Status = Total Cover Total Cover So Yes Sol Total Is No forward The status of the

			The state of the s				1 (
Project Number	05030				8	Sampling Date	: 10 24 16
Applicant:	Horse Creek Wind Farm				į	Data Point ID	: law wellal ww
Soil Map Unit:	Kingsbury	silty	9(/				
Soils	<i>J</i> .	Profile Descript	ion: (Describe to the d	epth needed to doc	ument the Ir	ndicator or cor	nfirm the absence of Indicators).
Depth	Matrix			Redux Features			II.
(inches)	Color (moist)	% []	Color (moist)	Frequency'	Type ²	Loc	Texture, Structure, Other
allot	10/E 3/1	100%			^		Shiff Clay
				* (************************************			
				. — — -			
ļ			***************************************	• - •			
¹ Frequency: F=	ी Few, MA≂Moderately Abund	ant, C=Common		120			14
² Type: C≃Conce	entration, D=Depletion, RM=	Reduced Matrix, C	S=Covered or Coated	Sand Grains			
*Location: PL=P	ore Lining, M≍Matrix						
Hydric Soil In	diantoro			Problematic Hy	dric Soll in	dicators	Restrictive Layer (if observed)
riyunc son ii	idicators					uioutoio	
Histosol (A: Histic Epipe			Below Surface (S8) Surface (S9)	2 cm Muck (Coast Prairie		(6)	Type:
Black Histic	(A3)	Loamy Muc	cky Mineral (F1)	5 cm Mucky	Peat or Pea		Depth (inches):
Hydrogen S Stratified La		Loamy Gley Depleted M	yed Matrix (F2) latrix (F3)	Dark Surface Polyvalue Be		e (S8)	
Depleted B	elow Dark Surface (A11)	Redox Darl	k Surface (F6)	Thin Dark S	urface (S9)		
	Surface (A12) ky Mineral (S1)		ark Surface (F7) ressions (F8)	Iron-Mangar Piedmont Fi			
Sandy Gley	red Matrix (S4)			Mesic Spodi	c (TA6)		
Sandy Red Stripped Ma				Red Parent i Very Shallov			
Dark Surface				Other (Expla	in in remark	(8)	
3Indicators of hy	drophytic vegetation and we	tland hydrology mu	ist be present, unless	[]] disturbed or problem	natic.		
Remarks							
		76	*				
							2,72
Wetland Dete	rmination						
Hydric Soil Pres Wetland Hydrol	petation Present? (196 No ent? (196 No ogy Present? (196 No Point Within a Welland? (197		lydrologic Connectivity Does Any Part of this D s this Wetland Potentia	elineated Wetland/	Stream Exte	No N/A and Past the F	lagged Boundary? Yes No N/A
Is the wetland Is the wetland	mapped in the NWI? Ye a mapped state wetland?	Yes No II	f yes, indicate classific f yes, indicate wetland				
CONTRACTOR OF THE PROPERTY OF				AND DESCRIPTION OF THE PROPERTY.			

	I Design & Research ry Street, Suite 1000		DATA FORM		274 North Goodman Street	
Syracuse, New	York 13202	AV 5-24 BEAVES	WETLAND DETERMING ral and Northeast Regional Suppli		Rochester, New York 14607	
Project Number	r: 05030	To	own: Clayton	Sampling Dal	te: 10/26/10	Y
Applicant:	Horse Creek Wind Farm		inty: Jefferson late: New York	Community:	Hay field-Ag.	
110000	I.e. 2W@Wel. G): \\\ \Q	wether ww	Nearest Flag to Data			
	And the second s					
Investigator(s):	111			rea a potential proble	em area? Yes No	
-suscialisations And		Depressional Riparia	Is the si	ite significantly distur	bed? Yes (No)	
	ition: Flat Undulating Slop		Approxi	mate Slope (%):	2%	
	drologic conditions on the site typ	ical for this time of year?	Yes No			
Do Normal Circ	sumstances exist on site? Yes	No			· ·	
Hydrology						
Primary Indica	itors (min 1 required; check	all that apply)	and the second of the second o		Secondary Indicators (min 2 req	uired)
Surface Wa High Water	iter (A1)	DE SERVICE SER	r-Stained Leaves (B9)		Surface Soil Cracks (B6) Drainage Patterns (B10)	
Saturation (A3)	Aqua	tic Fauna (B13) Deposits (B15)		Moss Trim Lines (B16) Dry-Season Water Table (C2)	
Water Mark Sediment D	eposits (B2)	Hydr	ogen Sulfide Odor (C1)		Crayfish Burrows (C8)	(00)
Drift Deposi Algal Mat or		Oxidi	zed Rhizospheres on Living ence of Reduced Iron (C4)	g Roots (C3)	Saturation Visible on Aerial Image Stunted or Stressed Plants (D-1)	ry (C9)
Iron Deposit	ts (B5)	Rece	nt Iron Reduction in Tilled	Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)	
Inundation \ Sparsely Ve	Visible on Aerial Imagery (B7) egetated Concave Surface (B8)		Muck Surface (C7) r (Explain in Remarks)		Microtopographic Relief (D4)	
			- 5 - 5 W.		FAC-Neutral Test (D5)	
Field Observat	llone.					
Inundation Pres	sent? Yes	No	Depth of Water (inch	es):		
Saturated Cond	litions? Yes	No	Depth to Sat. Soil (In- Depth to Water (inch			
Stream Charac		Stroom Cradiant	Substrata		Flow;	
Stream type: Perennial	Morphology: Bank Width	Stream Gradient: Gentle	Substrate: Bed Rock	Sand		
Intermittent	Stream Width	Moderate	Boulder	Silt		
	Water Depth	Steep	Cobble	Clay	Moderate	
Adjacent Comm	nunity Type:	<u></u>	Giavoi			-80
Instream Condit				Outschauseless	Vanalation	
	Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Po		Overhanging Vegetated Ct Other		
Remarks	10 mdrolog	y gregat				1
D	of army	7				
						. 8
	A A		1.6			
					3 9	

roject Number: 05030				mpling Date: 15/21/10 ata Point ID: 110 wettal ww
pplicant: Horse Creek Wind Farm			Da	ata Point ID: Wetkil WW
Vegetation Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
_W/A		-		Total Number of Dominant Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet: Total % Cover of: OBL species X1=
		= Total Cover	NA SERIE BEDE ART STOTES	FACW species X2 = FAC species X3 =
Sapling/Shrub Stratum (Plot size: 16-foot radius)				FACU species
				Prevalence Index = B/A =
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 6-foot radius)	50	Yes	upl	Rapid Test for Hydrophytic Vegetation Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remark:
mix of upland buy field grass	00)	yes	upl	Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators 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 (D8H), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 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.
				Remarks
	-			Active may Held
		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)				
V/4				
			2	
		= Total Cover		

Project Numbe	05030			·		Sampling Date	: 10/20	110
Applicant:	Horse Creek Wind Farm					Data Point ID		with ww
Soil Map Unit:	Kingsbyn	oth do						
COUNTY NO.	- Mily Sory		Y					(1 - H - 1)
Solls		Profile Description	on: (Describe to the c	lepth needed to do	cument the I	ndicator or cor	nirm the absenc	e of indicators).
Depth	Matrix		2-2-0-2-0-2-0-2-0-2-0-0-0-0-0-0-0-0-0-0	Redux Feature				No constitution of the con
(inches)	Color (moist)	<u> % </u>	Color (molst)	Frequency'	Type ²	Loc	Textu	re, Structure, Other
17-16t	1 645 3/5	100%						Ory
					2			
				-				
² Type: C=Conc	i Few, MA=Moderately Abund entration, D=Depletion, RM=		S=Covered or Coated	Sand Grains				
*Location: PL=F	ore Lining, M=Matrix							
Hydric Soll Ir	dicators			Problematic H	ydric Soll Ir	ndicators*	Restrictive	Layer (if observed)
Thick Dark Sandy Muc	edon (A2) c (A3) Sulfide (A4) syers (A5) elow Dark Surface (A11) Surface (A12) ky Mineral (S1)	Thin Dark S Loamy Mucl Coamy Gley Depleted Ma Redox Dark Depleted Da	ky Mineral (F1) ed Matrix (F2)	5 cm Muck Dark Surfa Polyvalue I Thin Dark 3 Iron-Manga	rie Redox (A y Peat or Pe ce (S7) Below Surfac Surface (S9) anese Masse Floodplain Sc	eat (S3) ce (S8) es (F12)	Type:	hes):
Sandy Gley Sandy Red Stripped M Dark Surfa	atrix (S6)			Red Paren Very Shallo	t Material (Ti ow Dark Surf lain in remar	face (TF12)		
³ Indicators of hy	drophytic vegetation and we	etland hydrology mus	st be present, unless	disturbed or proble	ematic.	#B000000000000000000000000000000000000		
Remarks \$\angle\$	nows hydr	c Chw	udoishic	\$.			oggetene v rousen i ed gra 157 falla	
			/					
Wetland Dete	rmination							
Hydric Soil Pres Wetland Hydrol	retation Present? Yes only (Yes) No only Present? Yes (No Point Within a Wetland?	Do Is	ydrologic Connectivity oes Any Part of this E this Wetland Potenti	elineated Wetland	I/Stream Ext	end Past the F	lagged Boundar	y? Yes No NIA
is the wetland	mapped in the NWI? You a mapped state wetland?	Yes No If	yes, indicate classific yes, indicate wetland					

	Design & Research		DATA FORM		274 North Goodman Street
	ry Street, Suite 1000	ROUTINE W	ETLAND DETERM	INATION	Rochester, New York 14607
Syracuse, New	10th 13202		and Northeast Regional Sup		1-1
Project Number	05030		n: Clayton	Sampling Date	: 10 26/10
r roject ivumber	. 00000		y: Jefferson		
Applicant:	Horse Creek Wind Farm		e: New York	Community:	west meadow
Data Point ID (i.e. 2W@Wel. G): \wQ v	shop XX	Nearest Flag to Dat	a Point: XX~ \	D
\$5.1845 VARIABLE ASSAULTS	Pippin / Lock	al	- lath-	area a potential problen	n area? Yes (No)
	11 '	Depressional Riparlan		site significantly disturb	
Landscape Pos	ition: Flat Undulating Slop	Ing Convex Concave			5-2%
Are climatic/hyd	drologic conditions on the site typ	ical for this time of year? Y	22	ximate Stope (%).	<u>0-0 b.</u>
	sumstances exist on site? (Yes	No			
Hydrology	- 4			w contribution of the second	A STATE OF THE PROPERTY OF THE
Hydrology					
Primary Indica	tors (min 1 required; check	all that apply)		, , ,	Secondary Indicators (min 2 required)
✓ Surface Wa	ater (A1)		(PD) seves I besief		Surface Soll Cracks (B6) Drainage Patterns (B10)
High Water Saturation (Table (A2)		Stained Leaves (B9) Fauna (B13)		Moss Trim Lines (B16)
Water Mark			eposits (B15)	(6	Dry-Season Water Table (C2)
	eposits (B2)	Hydrog	en Sulfide Odor (C1)	D1- (OO)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Depos	its (B3)		d Rhizospheres on Livi		Stunted or Stressed Plants (D-1)
	r Crust (B4)	Presen	ce of Reduced Iron (C4 Iron Reduction in Tilled	Solls (C6)	Geomorphic Position (D2)
Iron Deposi	visible on Aerial Imagery (B7)	Thin Me	uck Surface (C7)		Shallow Aguitard (D3)
Sparsely Ve	egetated Concave Surface (88)		Explain In Remarks)	i 19 0	Microtopographic Relief (D4)
A Commence of the commence of	0				FAC-Neutral Test (D5)
Field Observat		No	Depth of Water (inc	thesh: 3"	
Inundation Pres Saturated Cond		No	Depth to Sat. Soil (
Saturated Cond	JILIOIIST 163	No	Depth to Water (inc		
Stream Charac		1			Flow
Stream type:	Morphology;	Stream Gradient:	Substrate:	Cond	Flow: No Flow
Perennial	Bank Width	Gentle	Bed Rock	Sand	_
Intermittent	Stream Width	Moderate	Boulder	Sllt	
	Water Depth	Steep	Cobble	Clay	Moderale Heavy
Adjacent Comm	nunity Type:		Gravel		riousy
Instream Condi		nn.		Overhanging \	lensiation
- 1	_ Obscurred Banks _ Well Defined Banks	Deep Pools Riffles & Po		Vegetated Cha	annel
()	Eroded/Undercut Bank			Other	An annual train annual train annual train ann ann ann ann ann ann ann ann ann
Remarks				* 1	

			-	1 1
Project Number: 05030				mpling Date: 10 /26 /6
Applicant: Horse Creek Wind Farm	à)		Da	ata Point ID: we welled
Vegetation	Abadata	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Species?		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
				Total Number of Dominant Species Across Ali Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet:
		-		Total % Cover of: Multiply by:
		= Total Cover		OBL species x1= FACW species x2=
			wegender dationitat	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)				UPL species x5=
A /				Column Totals: (A)
. <i>MA</i>				Prevalence Index = B/A =
			×11-1-1	
				- ,
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 6-foot radius)		10 10 10 10 10 10		Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks)
that rest government	Kasep	·		Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
green bulrush	30	yes	OH	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Soisea alba	10	alv	form	Sapling/shrub - Woody plants less than 3 in. DBH and greater
Ceel canan grass	10	du	Forces	than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
Selidago SP.	20	facyes	GAEN	and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
	41 11		-	Remarks
0				
		= Total Cover		
	WEST STREET			¥ .
Woody Vine Stratum (Plot size: 30-foot radius)		11		
		-		
		= Total Cover		
3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	demy-	are comment		

		INC. ACMINISHOW HOW WITH THE				Sampling Date	10/26/10
Project Number Applicant:	Horse Creek Wind Farm	77				Data Point ID	
Африсант.	Holse Creek Willia Pallit						- Twee Contract Ry
Soil Map Unit:	Chaumont 5	Ity clay		 n			
Soils		Profile Descri	ption: (Describe to the d	lepth needed to do	cument the	Indicator or cor	firm the absence of Indicators).
Depth (1 Malrix			Redux Feature			N.
(inches)	Color (molst)	%	Color (moist)	Frequency'	Type ²	Loc	Texture, Structure, Other
0-164	104041	100	n		-		Clay
0 (01	1016-11			·			
-	-				-		
				* ************			
- 4				-			
Frequency F	ी =Few, MA=Moderately Abun	fant C≕Common					
2Type: C=Cond	centration, D=Depletion, RM	=Reduced Matrix,	CS=Covered or Coaled	Sand Grains			
3Location: PL=	Pore Lining, M=Matrix						
CANCIAL ALLEGAM SANCE				Problematic H	ludda Call li	ndlastores	Restrictive Layer (if observed)
Hydric Soil I	ndicators			Problematic r	iyane son n	iluicators	Restrictive Layer (in observed)
Histosol (A			Below Surface (S8) Surface (S9)	2 cm Muci	k (A10) irie Redox (A	16)	Type:
Histic Epip Black Hist	pedon (A2) lc (A3)	Loamy M	ucky Mineral (F1)	5 cm Mucl	ky Peat or Pe		Depth (inches):
	Sulfide (A4)	Loamy G	leyed Matrix (F2)	Dark Surfa	ace (S7) Below Surfa	ce (S8)	
	Layers (A5) Below Dark Surface (A11)	Redox Da	ark Surface (F6)	Thin Dark	Surface (S9))	
	k Surface (A12)		Dark Surface (F7) epressions (F8)		anese Mass Floodplain S		
	cky Mineral (S1) yed Matrix (S4)	Nedox De	apressions (r o)	Mesic Spo	dic (TA6)		
Sandy Red Stripped M				Red Parer	nt Material (T low Dark Sur	F2) face (TF12)	
Dark Surfa					olain in rema		
3 Indicators of h	ydrophytic vegetation and w	etland hydrology r	nust he present unless	disturbed or probl	ematic.		
morcators or n	iyutophyuc vegetation and vi	chand hydrology i					
Remarks							
							*
Wetland Det	ermination						
Hydrophytic Ve	egetation Present? Yes	No	Hydrologic Connectivit	y to Off-site Wetla	nds? (Yes	No N/A	
Wetland Hydro	sent? Yes No logy Present? Yes No g Point Within a Wetland?	Yes No	Does Any Part of this I is this Wetland Potenti	Delineated Wetlan ally Isolated? Y	es (No) N	tend Past the F /A	lagged Boundary? (Yes No N/A
Is the wetland	d mapped in the NWI? Y	es No ? Yes No	If yes, Indicate classific If yes, Indicate wetland				

						7
	l Design & Research		DATA FORM		274 North Goodman Street	1
	ry Street, Suite 1000	DOLLTER	DATA FORM WETLAND DETERMI	NATION	Rochester, New York 14607	1
Syracuse, New	York 13202				Troulester, now Tork 17007	
	- 07000		ral and Northeast Regional Supp	Sampling Date:	10/26/10	
Project Number	r: 05030		own: Clayton unty: Jefferson	oamping Date.		
	Harris Oracle Man J France		late: New York	Community:	solul has field	
Applicant:	Horse Creek Wind Farm	•	MIO. HOW TOTA		Y	
Data Point ID	(I.e, 2W@Wet. G): \\((i)	01-44	Nearest Flag to Data	a Point: XX-(D		100
Data FOIII ID						â
la constitution of the	0'00'1 110	dal				
Investigator(s):	fippin / Co	~~~	Is the a	area a potential problem a	rea? Yes No	
Landform: H	iliside/Seep Toe of Slope	Depressional Riparia	n			
				site significantly disturbed	Yes (NO)	
Landscape Pos	sition: Flat Undulating Slop	oing convex concave	Approx	dimate Stope (%):	7-7%	
Are elimetic/hy	drologic conditions on the site typ	olcal for this time of year?				Carlotte Comment
Do Normal Circ	cumstances exist on site? Xes) No				
	2					
Hydrology						
			Andrew Strategy and Strategy an	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	me sentan und equasione du marcon et d'allemant de la company de la comp	
Primary Indica	ators (mln 1 required; check	all that apply)		Se	condary Indicators (min 2 required)	250000
Surface Wa	ater (A1)		er-Stained Leaves (B9)	-	Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Saturation	Table (A2)		er-Stained Leaves (B9)	1 9	Moss Trim Lines (B16)	
Saturation		Marl	Deposits (B15)		Dry-Season Water Table (C2)	
Sediment D	Deposits (B2)		rogen Sulfide Odor (C1)	ng Pools (C2)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	
Drift Depos			ized Rhizospheres on Livin ence of Reduced Iron (C4)		Slunted or Stressed Plants (D-1)	1100
Algai Mai o	r Crust (B4) its (B5)	Reco	ent Iron Reduction in Tilled	Soils (C6)	Geomorphic Position (D2)	170
Inundation	Visible on Aerial Imagery (B7)		Muck Surface (C7)	-	Shallow Aquitard (D3) Microtopographic Relief (D4)	
Sparsely Ve	egetated Concave Surface (B8)	Othe	er (Explain in Remarks)		FAC-Neutral Test (D5)	
				ADVICE PROPERTY AND PROPERTY OF THE PARTY OF		28.0
n saariya haa						91
Field Observa Inundation Pres	1247	No	Depth of Water (incl	hes):		
Saturated Cond		No	Depth to Sat. Soil (in	nches):	——————————————————————————————————————	
			Depth to Water (Incl	hes):	<u>→</u>	
SATISFICACIONES CONTRACTOS ANTA						
PROPERTY OF THE PROPERTY OF TH				元6年6日 在中国中国大学的大学的大学的大学的	A section of the Control of the Cont	020
Stroam Chara	ctorietics	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			*:	
Stream Chara		Stream Gradient	Substrate:		Flow:	
Stream type:	Morphology:	Stream Gradient:	Substrate:	Sand	77 57	
Stream type; Perennial	Morphology: Bank Width	Gentle	Bed Rock	Sand	No Flow	
Stream type:	Morphology; Bank Width Stream Width	Gentle	Bed Rock Boulder	Silt	No Flow	
Stream type; Perennial	Morphology: Bank Width	Gentle	Bed Rock		No Flow	
Stream type; Perennial Intermittent	Morphology: Bank Width Stream Width Water Depth	Gentle	Bed Rock Boulder Cobble	Silt	No Flow Gentle Moderate	
Stream type; Perennial	Morphology: Bank Width Stream Width Water Depth	Gentle	Bed Rock Boulder Cobble	Silt	No Flow Gentle Moderate	
Stream type; Perennial Intermittent	Morphology: Bank Width Stream Width Water Depth munity Type:	Gentle Moderate Steep	Bed Rock Boulder Cobble Gravel	Silt	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Comm	Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Comm	Morphology: Bank Width Stream Width Water Depth munity Type:	Gentle Moderate Steep	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Ver	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Comm	Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Comm	Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Comm	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: Obscurred Banks Well Defined Banks	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	
Stream type: Perennial Intermittent Adjacent Community Conditions Adjacent Conditions	Morphology: Bank Width Stream Width Water Depth munity Type: ilions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Gentle Moderate Steep Deep Po	Bed Rock Boulder Cobble Gravel	Silt Clay Overhanging Veg Vegetated Channel	No Flow Gentle Moderate Heavy	

				t t
Project Number: 05030			Sai	mpling Date: 10 76 16
Applicant: Horse Creek Wind Farm			Da	ata Point ID: \u0 \u0 \u0 \u0
Vegetation	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Species?	Status	Number of Dominant Species That Are ORL FACW or FAC: (A)
0) [0				That Are OBL, FACW, or FAC:(A)
1. 10 /24		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Total Number of Dominant
2.				Species Across All Strata: (() (B)
				Percent of Dominant Species
3.	-			That Are OBL, FACW, or FAC:(A/B)
4	-			Prevalence Index worksheet:
5				Total % Cover of: Multiply by:
	2			OBL species x1=
	(***	= Total Cover		FACW species x2 =
				FACU species x4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)	1983 THE ET (1984 - 1984 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 -	Section of the sectio		UPL species x5 =
1MA				Column Totals: (A)
1			-	Prevalence Index = B/A =
2	·			
3.				
	•	•		
4				
5				
-		- Tatal Cause		Hydrophytic Vegetation Indicators:
		= Total Cover		Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)	nelector property 5000	A STATE OF THE PROPERTY OF STATE OF STA	The second second	Dominance Test >50%
1. Hay field o russer alwer	Sage	APL	las	Prevalence Index is ≤3.0 ⁵ Morphological Adaptations ¹ (provide supporting data in remarks)
1. Hay thea July 1 allower	1806	-0/67	- thr	Problematic Hydrophytic Vegetation (explain in remarks)
2.	1			Indicators of hydric soil and wetland hydrology must be present,
				unless disturbed or problematic,
3.	-	-		Definitions of Vegetation Strata:
4.				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 3.28 ft (1 m) tall.
6.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7				Woody vines - All woody vines greater than 3.28 ft in height.
8				Remarks
9.				7, 1
	12			
10		-		
		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)				*
A V				
1		***************************************		
2.				
	56 C	-		
3.			-	
4.	,			
V				
5				
		= Total Cover		

					Little Company of the Little Country of the	Y	1 1	
Project Number:	05030						10/20/10	A tale
Applicant:	Horse Creek Wind Farm					Data Point ID	: lua ux	Hal &
x	01 1	211 1						
Soil Map Unit:	Chaunont	81179 51	4					
Solls		Profile Descripti	on: (Describe to the d	epth needed to do	cument the I	ndicator or cor	firm the absence o	or indicators).
Depth	Matrix		The Total And Society State of	Redux Feature		Loc³	Toulus	Structure, Other
(Inches)	Color (moist)	- %	Color (moist)	Frequency'	Type ²			Structure, Other
12-16-	104841	_ 1000					Clay	
				1 1				
					Harrison de la constantia			
			***	•				
Frequency: F=F	ew, MA=Moderately Abun	dant, C=Common	CarCovered or Coates	Sand Grains				
	ntration, D=Depletion, RM ore Lining, M=Matrix	=Reduced Matrix, C	5-Covered of Coalec	Gallo Giallis				
				TI			T	
Hydric Soil In	dicators			Problematic H	lydric Soll ir	ndicators	Restrictive L	ayer (if observed)
Histosol (A1	\	Polyvalue E	elow Surface (S8)	2 cm Muck	(A10)		Type:	
Histle Epipe	don (A2)	Thin Dark S	Surface (S9)		rie Redox (A		Depth (inche	es).
Black Histic Hydrogen S			ky Mineral (F1) red Matrix (F2)	Dark Surfa	ky Peat or Pe ace (S7)	eat (53)	Deptir (inche	
Stratified La	yers (A5)	Depleted M	atrix (F3)		Below Surface			
	elow Dark Surface (A11) Surface (A12)		Surface (F6) ark Surface (F7)		Surface (S9) anese Mass		Special	
Sandy Muck	cy Mineral (S1)		ressions (F8)		Floodplain S	oils F19)		
Sandy Gley	ed Matrix (S4)			Mesic Spo	nt Material (T	F2)		
Stripped Ma	etrix (S6)				ow Dark Sur olain in rema			
Dark Surfac						ive)		
³ Indicators of hy	drophytic vegetation and w	retland hydrology mu	st be present, unless	disturbed or proble	ematic.		_]]]	
							AND THE PROPERTY OF STREET	
Remarks	1.11	culous	1.1	c) mus	. 4	M.O	Charc	Churcher & H
	7011 000	Survin	en son	/ 1000 /	, ,,	/·uc		
2								
								*
5								
THE EXPLOSION AND A SECOND								
						292.5.1.2.2.2.3.3.3	-	**************************************
Wetland Dete	rmination					0		_
Hydrophytic Veg	getation Present? Yes	(en	lydrologic Connectivi loes Any Part of this	ty to Off-site Wetlan	inds? Yes	No NIA	Flagged Boundary	Yes No NIA
Hydric Soil Pres Welland Hydrol	ent? Ves No		s this Wetland Potent	ially isolated?	es No N	IA)	Togget Dooman's	
Is this Sampling	ogy Present? Yes No Point Within a Wetland?	Yes No		7.		9		74
Is the wetland	mapped in the NWI?		f yes, indicate classifi					
Is the wetland	a mapped state wetland	1? Yes No	f yes, indicate wetland	IID	-3/4Fe			

Environmental Design & Research 217 Montgomery Street, Suite 1000 Syracuse, New York 13202 Project Number: 05030	DATA FORM ROUTINE WETLAND DETERMINATION Northcentral and Northeast Regional Supplement Town: Clayton County: Jefferson State: Naw York Community: 141, Change
Applicant: Horse Creek Wind Farm	State, New York
Data Point ID (i.e. 2W@Wet. G): Stream Q YY	Nearest Flag to Data Point: YY-6
Investigator(s): Rogue Lor Lor Lor Landform: Hillside/Seep Toe of Slope Depressiona Landscape Position: Flat Undulating Sloping Converge Are climatic/hydrologic conditions on the site typical for this tip Do Normal Circumstances exist on site? Yes No Hydrology	is the site significantly disturbed? Yes (No) Approximate Slope (%): 2360
Primary indicators (min 1 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 (min 2 required) Surface Soil Cracks (B6) Dralnage Patterns (B10) Moss Trim Lines (B16) Lory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Fleid Observations Inundation Present? Yes No	Depth of Water (inches): Depth to Sat. Soil (inches): Depth to Water (inches):
Stream Characteristics Stream type; Morphology; Stream Greentle Perennial Bank Width 3 Gentle Intermittent Stream Width 1' Moderate Water Depth 1' Steep	Substrate: Sand No Flow:
Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks (Medical Low) Eroded/Undercut Bank	eccurous evant
Remarks Uydrologic Condition Thins in gast	ons Were abnormal due to heavy 2-3 weeks. At Bout full stage.

Environmental Design & Research			
	DATA CODE	274 North Goodman Stre	et l
217 Montgomery Street, Suite 1000	DATA FORM		
Syracuse, New York 13202	ROUTINE WETLAND DETER		**
[編集] - 187	Northcentral and Northeast Regional S		
Project Number: 05030	Town: Clayton	Sampling Date: 10 23 10	
S	County: Jefferson		
Applicant: Horse Creek Wind Farm	State: New York	Community: JEM YOW	
Data Point ID (i.e. 2W@Wet. G): しゅのい	Nearest Flag to D	ata Point: 22-2	
Data 1 Olit 15 (1.6. 244 (514 to 1. 0)) 1 (00 (5) 60			
_ \ (. ()		* Fig. 1
Investigator(s): Plania Lautu	X	e area a potential problem area? Yes No?	
	Depressional Riparlan	e area a potential problem area.	
Landform: Hillside/Seep Toe of Slope D	leth	e site significantly disturbed? Yes No	
Landscape Position: Flat Undulating Slopi		- 4	
Landscape Conton. Flat Oliving Stop	App	roximate Slope (%): 8 290	
Are climatic/hydrologic conditions on the site typi		20 W 1/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Are cittienen der concepte concepte ou me are de			
Do Normal Circumstances exist on site? Yes) No		
		V.	
Hydrology			
		On and and had not an India	2 regulated)
Primary Indicators (min 1 required; check a	ill that apply)	Secondary Indicators (min. Surface Soil Cracks (B6)	z required)
✓ Surface Water (A1)		Drainage Patterns (B10)	
High Water Table (A2)	✓ Water-Stained Leaves (B9) Aquatic Fauna (B13)	Moss Trim Lines (B16)	32
Saturation (A3) Water Marks (B1)	Mari Deposits (B16)	Dry-Season Water Table (02)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
Drift Deposits (B3)	Oxidized Rhizospheres on L		
Algal Mat or Crust (B4)	Presence of Reduced Iron ((4) Stunted or Stressed Plants	(U-1)
Iron Deposits (B5)	Recent Iron Reduction in Till	ed Soils (C6) Geomorphic Position (D2) Shallow Aguitard (D3)	-
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7) Other (Explain in Remarks)	Microtopographic Relief (D	4)
Sparsely Vegetated Concave Surface (88)	Onter (Explain in Deniary)	FAC-Neutral Test (D5)	380 85
			4.7
Field Observations		24" IEM /2 21 0 1	
Inundation Present? Yes 🗸	No Depth of Water (
	No Depth to Sat. Soi	(Inches): D	
Inundation Present? Yes 🗸		(Inches): D	
Inundation Present? Yes 🗸	No Depth to Sat. Soi	(Inches): D	
Inundation Present? Saturated Conditions? Yes Yes	No Depth to Sat. Soi	(Inches): D	
Inundation Present? Saturated Conditions? Yes Yes Yes Stream Characteristics	No Depth to Sat. Soi Depth to Water (i	(inches): O	
Inundation Present? Saturated Conditions? Yes Yes	No Depth to Sat. Soi Depth to Water (i	(inches): O Flow;	
Inundation Present? Saturated Conditions? Yes Yes Yes Stream Characteristics	No Depth to Sat. Soi Depth to Water (i	nches): 0 Flow: No Flow	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology; Perennial Bank Width	No Depth to Sat. Soi Depth to Water (i	(inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width	No Depth to Sat. Soi Depth to Water (i	nches): 0 Flow: No Flow	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width	No Depth to Sat. Soi Depth to Water (i	(inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth	No Depth to Sat. Soi Depth to Water (i	(inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width	No Depth to Sat. Soi Depth to Water (i	(inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type:	No Depth to Sat. Soi Depth to Water (i	(Inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth	No Depth to Sat. Soi Depth to Water (i	(inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks	No Depth to Sat. Soi Depth to Water (i	Clay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks	No Depth to Sat. Soi Depth to Water (i	(inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks	No Depth to Sat. Soi Depth to Water (i	Clay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks	No Depth to Sat. Soi Depth to Water (i	Clay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Intermittent Stream Width Water Depth Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank Remarks	No Depth to Sat. Soi Depth to Water (i	Ciay Coverhanging Vegetation Ciay Coverhanging Vegetation Ciay Ciay	

Project Number: 05030 Applicant: Horse Creek Wind Farm				mpling Date: 16/27/10 sta Point ID: 72/2 \ w@ wet(d ??
Vegetation <u>Tree Stratum</u> (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2.				Total Number of Dominant Species Across All Strata: Percent of Dominant Species
4.				That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet:
5		= Total Cover	(4)	Total % Cover of: Multiply by:
Sapilng/Shrub Stratum (Plot size: 15-foot radius)	_			FACU species
1. NA 2. 3. 4.				Prevalence Index = B/A =
5		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5-foot radius) 1. Leal Lawy GNUS	9000	<u>yes</u>	facw	Rapid Test for Hydrophylic Vegetation V Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks)
2. Wood grass	45 %	No	Falu	Problematic Hydrophytic Vegetation ¹ (explain in remarks) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				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 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7			-	Woody vines - All woody vines greater than 3.28 ft in height. Remarks
9,				ares of man grass
10.		≖ Total Cover		aras of mann grass absorber to plot. Surple boint on lund edge.
Woody Vine Stratum (Plot size: 30-foot radius)				edge.
2.				
4.				
5		= Total Cover		

					Sampling Date	: 10/27/10
Project Numbe Applicant:	Horse Creek Wind Farm				Data Point ID	. 0
pphont		1.4	1	- E		
Soil Map Unit:	Chaumont	1	144			
Solls		Profile Descrip	tion: (Describe to the d	epth needed to docume	nt the Indicator or co	nfirm the absence of Indicators).
Depth	Malrix			Redux Features		4
(Inches)	Color (moist)	%	Color (molst)	Frequency' Typ	De ² Loc ³	Texture, Structure, Other
0-10+	1 1045241	100				1 Clay
						J. J.
						<u></u>
					2000 200	
15	Town MA - Mandarollohi Abuna	foot C=Common				
2Type: C=Cond	Few, MA=Moderately Abund centration, D=Depletion, RM	=Reduced Matrix,	CS=Covered or Coated	Sand Grains		
3Location; PL=	Pore Lining, M=Matrix					
11 11 0 11	Section of the Company of the Company and the Company of the Compa			Problematic Hydric	Soll Indicators	Restrictive Layer (if observed)
Hydric Soil I	ndicators					
Histosol (A Histic Epip			Below Surface (S8) Surface (S9)	2 cm Muck (A10 Coast Prairie Re)) edox (A16)	Туре:
Black Hist	ic (A3)	Loamy Mu	icky Mineral (F1)	5 cm Mucky Pea Dark Surface (S	at or Peat (S3)	Depth (Inches):
	Sulfide (A4) ayers (A5)		eyed Matrix (F2) Matrix (F3)	Polyvalue Below	Surface (S8)	
Depleted I	Below Dark Surface (A11) Surface (A12)		rk Surface (F6) Dark Surface (F7)	Thin Dark Surfa		
Sandy Mu	cky Mineral (S1)		pressions (F8)	Pledmont Flood	plain Soils F19)	
Sandy Gle Sandy Red	yed Matrix (S4) dox (S5)			Mesic Spodic (T	erial (TF2)	
Stripped N	fatrix (S6)			Very Shallow Da Other (Explain in	ark Surface (TF12) n remarks)	
Dark Surfa						
³ Indicators of h	ydrophytic vegetation and w	etland hydrology n	nust be present, unless	disturbed or problemation	G.	
Remarks						
Memarks						
*						
24						
*						
				2.5		
				<u> </u>		
Wetland Det	ermination					
Hydric Soil Pre Wetland Hydro		No Ves No	Does Any Part of this I	y to Off-site Wetlands? Delineated Wetland/Stre lally Isolated? Yes	am Extend Past the	Flagged Boundary? (Fee No N/A
Is the wetland	d mapped in the NWI? (I	es No	If yes, indicate classific If yes, indicate wetland	cation PUBH	_	
					7 7 7	

Environmente	l Design & Research				
	ry Street, Suite 1000		DATA FORM	nd esses	274 North Goodman Street
Syracuse, New	7		WETLAND DETERMI		Rochester, New York 14607
			al and Northeast Regional Supp		11 -1.
Project Number	r: 05030		wn: Clayton	Sampling Date:	017710
	The second		nty: Jefferson		uplul meadow
Applicant:	Horse Creek Wind Farm	St	ate: New York	Community:	upun maxuu
Data Point ID ((I.e. 2W@Wel. G): \(\lambda \rightarrow \)	verul 72	Nearest Flag to Date	a Point: 22- Z	
		A CANADA CONTRACTOR OF THE PARTY OF THE PART			
Investigator(s):	lippin/lockar	X	le the c	area a potential problem a	area? Yes (No)
	11 1	epressional Riparlar	1	5.	1
			Is the s	ite significantly disturbed	7 Yes (No
Landscape Pos	sition: Flat Undulating Slopi	ng Convex Concave	Approx	dmate Slope (%):	7-5%
Are elimetta form	drologic conditions on the site typi	cal for this time of year?			
Are climatic/hyd	orologic conditions on the site typi	Car for the title of Jear			* V 7
Do Normal Circ	cumstances exist on site? Yes	No			
the death	Y 100 1				
Hydrology					
	San San San Lander San Committee San Land Committee		and the second s	Harris and the second control of the second	sandam Indicators (min - 2 required)
	ators (min 1 required; check a	ll that apply)		Se	condary Indicators (min 2 required) Surface Soil Cracks (B6)
Surface Wa	ater (A1) rTable (A2)	Wate	r-Stained Leaves (B9)		Drainage Patterns (B10)
Saturation	(A3)	Aqua	tic Fauna (B13)	-	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Mark	ks (B1)		Deposits (B15) ogen Sulfide Odor (C1)	-	Crayfish Burrows (C8)
Sediment D Drift Depos	Deposits (B2)		zed Rhizospheres on Livir	ng Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	r Crust (B4)	Prese	ence of Reduced Iron (C4)	1	Stunted or Stressed Plants (D-1)
Iron Depos	its (B5)		nt Iron Reduction in Tilled Muck Surface (C7)	Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation	Visible on Aerial Imagery (B7) egetated Concave Surface (B8)		r (Explain in Remarks)	(Microtopographic Relief (D4)
sparsely v	egetated contrava aunaca (po)		And the second second	_	FAC-Neutral Test (D5)
SCHOOLSEC BUSINESS					
Field Observa	tions				
Inundation Pres	sent? Yes	No	Depth of Water (inc		-
Saturated Cond	ditions? Yes	No	Depth to Sat. Soil (I Depth to Water (Inc	nches):	- w
			Depui to water (Inc	illooj.	
Stream Chara	cteristics	17.0 Mg/s			Ctana
Stream type:	Morphology:	Stream Gradient:	Substrate:		Flow:
Perennial	Bank Width	Gentle	Bed Rock	Sand	
Intermittent	Stream Width	Moderate	Boulder	Silt	
	Water Depth	Steep	Cobble	Clay	Moderate Heavy
			Gravel		I iday)
Adjacent Com	munity Type:				
Instream Cond	itions:			Overhander Ma	actation
	Obscurred Banks	Deep Po		Overhanging Ve Vegetaled Chan	getation
-	_ Well Defined Banks Eroded/Undercut Bank	Riffles &	roots	Other	
-	- Florenondelen bank			an nagaraharan nagaraharan kanga 1613 m	
					A STATE OF THE PROPERTY OF THE
Remarks			٨		
	No hydrol	ogy observ	Vo		
	100 100	17 0000	-0		
	Tan .				
			15 15		
					*

Project Number: 05030 Applicant: Horse Creek Wind Farm				mpling Date: Lo[27(10 ata Point ID: \LA Q WRF1.12 72.
Vegetation Tree Stratum (Plot size: 30-foot radius) 1.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: O (A) Total Number of Dominant
2		= Total Cover		Species Across All Strata:
1. NA 2. 3. 4.				Column Totals: (A) (E
5		= Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophylic Vegetation
Herb Stratum (Plot size: 5-foot radius) 1. Othal grass 2. Moltinger, Lammon 3. Wack herry Rusus (p. 4. Reed Canay Crass 5 Solidago Sp. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30-foot radius) 1. NA	90 20 10 4e10 45	yes yes No No	Tau toul Tau Tou	Dominance Test >50% Prevalence Index is <3.01 Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and welland 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 3.28 ft (1 m) tail. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft in height. Remarks
2		= Total Cover		

Dealest March	05020					Sampling Date	10/27/10
Project Number: Applicant:	05030 Horse Creek Wind Farm					Data Point ID	
, depriorate							
Soil Map Unit:	Chaumont si	Ity ela	y				
Solls		Profile Descrip	otion: (Describe to the d	epth needed to doc	cument the I	ndicator or con	firm the absence of Indicators).
Depth	Malrix	11		Redux Features			
(inches)	Color (molst)	%	Color (molst)	Frequency'	Type ²	Loc	Texture, Structure, Other
0-4	1648 Alt	100					day loam
64	1042 5/4	100	-			Name of the last o	(ly loan
							l l
	-						
	H-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1						
			William III				
¹ Frequency: F=Fe	ew, MA=Moderately Abunda stration, D=Depletion, RM=F	nt, C≕Common Reduced Matrix, t	CS=Covered or Coated	Sand Grains			
	re Lining, M=Matrix	COURSE SHOWING					
							IL
Hydric Soil Ind	icators			Problematic Hy	ydric Soll In	dicators	Restrictive Layer (if observed)
Histosol (A1)			Below Surface (S8)	2 cm Muck		40)	Туре:
Histic Epiped Black Histic (Surface (S9) ucky Mineral (F1)	5 cm Mucky	ie Redox (A y Peat or Pe		Depth (inches):
Hydrogen Su	Ifide (A4)	Loamy Gl	eyed Matrix (F2)	Dark Surface Polyvalue B	ce (S7)		
Stratified Lay Depleted Beld	ers (A5) ow Dark Surface (A11)	Redox Da	Matrix (F3) rk Surface (F6)	Thin Dark S	Surface (S9)		
Thick Dark S Sandy Mucky			Dark Surface (F7) pressions (F8)		nese Masse Ioodplain Sc		CHESCO CONTRACTOR OF THE CHESCO CONTRACTOR OF
Sandy Gleyed	d Matrix (S4)	INEGOX DE	pressions (r o)	Mesic Spod	iic (TA6)		
Sandy Redox Stripped Mate				Red Parent Very Shallo	Material (TI w Dark Surf		
Dark Surface					ain in remar		
3 Indicators of hydr	rophytic vegetation and wet	and hydrology m	nust be present, unless	11 disturbed or proble	matic.		
SECTION AND SECTION							
Remarks							
		3					
-			*				
4 1 1							
0				2			
edia nosa l'ona molta di muovi sa							
					A2001_2[1] 18 12 0.43	75.721729.4217.4747.24	240.10.5370000.200.20000000000000000000000000000
Wetland Deterr	<u>mination</u>	-		Testerni delle considerate		0	
Hydric Soil Preser Wetland Hydrolog	y Present? Yes (No)		Hydrologic Connectivity Does Any Part of this E is this Wetland Potenti	Delineated Wetland	/Stream Ext	end Past the F	lagged Boundary? Yes No N/A
	Point Within a Wetland?" Y			2			
Is the wetland many the street wetland a	napped in the NWI? Yes mapped state wetland?	Yes No	If yes, indicate classific If yes, indicate wetland				

· · · · · · · · · · · · · · · · · · ·			
Environmental Design & Research	DATA F	OPM	274 North Goodman Street
217 Montgomery Street, Suite 1000	ROUTINE WETLAND		Rochester, New York 14607
Syracuse, New York 13202	Northcentral and Northeast		ar II.
Project Number: 05030	Town: Clayton	Sampling Dat	e: (0 28 (0
1.1.700.110.110.11	County: Jefferson		0 1
Applicant: Horse Creek Wind Farm	State: New Yo	rk Community:	
Data Point ID (I.e. 2W@Wet. G): W@ Wetle	Rearest Nearest	Flag to Data Point: AAA- 2	
Investigator(s): Poppis / Lockers		Is the area a potential proble	m area? Yes No
Landform: Hillside/Seep Toe of Slope Depres	ssional Riparian	is the site significantly distur	bed? Yes No
Landscape Position: Flat Undulating Sloping	Convex Concave	Approximate Slope (%):	0-2%
Are climatic/hydrologic conditions on the site typical fo	this time of year? (Yes) No		
Do Normal Circumstances exist on site? Yes No			
Q.			
Hydrology			
Determinations from a required sheet all the	annivi		Secondary Indicators (min 2 required)
Primary Indicators (min 1 required; check all tha Surface Water (A1)	,		Surface Soil Cracks (B6)
High Water Table (A2)	Water-Stained Leaves (R1)		Company Patterns (B10) Moss Trim Lines (B16)
Saturation (A3)	Aquatic Fauna (B13 Marl Deposits (B15		Dry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide C	dor (C1)	Cravfish Burrows (C8)
Drift Deposits (B3)		eres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1)
Algal Mat or Crust (B4)	Presence of Reduc	ed Iron (C4) ion in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Recent Iron Reduct	(C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain In R	emarks)	Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
Field Observations	Denth of	Water (Inches): 7 ¹¹	
Inundation Present? Yes No. No. No.		Sat. Soil (inches):	Part State of the Control of the Con
	Depth to	Water (inches): 0	-
Stream Characteristics	om Gradient Subst	ate.	Flow:
ORGANITATION -	eam Gradient: Substrate Substrat	The state of the s	No Flow
Tolomial Balli Thou	ierate Boulder	Slit	Gentle X
intermittent of contribution		Clay ×	Moderate
* colembal Water Depth 1" Ste	Gravel		Heavy
	Olavei	-	
Adjacent Community Type:			
Instream Conditions:	Deep Pools	Overhanging	Vegetation
Obscurred Banks Well Defined Banks	Riffles & Pools	Vegetated C	hannel
Eroded/Undercut Bank		Other	
	CENTRAL COTTOTION (COTTOTION)		
Remarks			
LOUIGING			
	A 1 - 7		
SE DES includes Hays AA	11-2		
AA	1A 19-17		
	-		
of pto all others			
VIO all pries	4		

Project Number: 05030 Applicant: Horse Creek Wind Farm				mpling Date: it 28/10 ata Point ID: Iwo wetlal Add
Vegetation	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Species?	Status	Number of Dominant Species
1. Réd Mapp	30	yes	fac	That Are OBL, FACW, or FAC: 4 (A)
2. bonwood A. Hernbeam	30	<u>yes</u>	fac	Total Number of Dominant Species Across All Strata: (B)
3. Green Ash	20	No	facul	Percent of Dominant Species That Are OBL., FACW, or FAC: 100 (A/B)
5		= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15-foot radius)	7.0000000000000000000000000000000000000	/##19079.57/Re-11	٨	UPL species x 5 =
1. Pussy Willow	5	No	tacul_	October 1988
COV CA	5	No	falw	Prevalence Index = B/A =
3. Silky dogwood	10	ues	facul	
4. Cran dogwood	20	yes	Gul	
5 Cel mude	10	du	fal	
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5-foot radius)	BESSES.			Repld Test for Hydrophylic Vegetation Dominance Test >50%
1. Estidayo Sp.	30	yes	Salul	Prevalence Index is ≤3.01 Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks)
2. Aster sp.	20	yes	frew	Indicators of hydric soil and wetland hydrology must be present,
3. Common rush	20	405	100	unless disturbed or problematic.
4. Green Indrush	10	on_	06	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
5 Wool Grass	10	No	four.	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater
e. Calex Sp.	30	yes	FALW	than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
7. Blue Jervain (- Verbena hulla	016	110	faces	and woody plants less than 3.28 ft tell. Woody vines - All woody vines greater than 3.28 ft in height.
8.				Remarks
10.				
		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)	TIME TO SERVE		a Nama Production and Property States of Con-	× 2
1 1/0				
2.				
3.				W. Carlotte and Ca
4.	Market			
5		= Total Cover		

Project Number: 06 Applicant: Ho	030		. I		3	Sampling Date:	10/28/10
	orse Creek Wind Farm					Data Point ID :	
oil Map Unit:	hingsbury si	The clark					
olls		Profile Descrip	tion: (Describe to the d	epth needed to do	cument the i	ndicator or con	firm the absence of indicators).
Depth	Matrix			Redux Feature Frequency	Type*	Loc	Texture, Structure, Other
(inches)	Color (moist)	%	Color (moist)	Frequency	Туро	100	Texture, Structure, Outer
0-5	10/2 2/2	100%	. =1	- —			Silt Clay
ct I	10/R 5/1		10YF 5/8	<u> </u>	<u></u>		Clay
						200	
						100	
	Sept. Sept. Sept. Str. Sept. S		**************************************				
equency: F=Few	r, MA=Moderately Abun atton, D=Depletion, RM	dant, C=Common	CS≃Covered or Coaled	Sand Grains			
	ation, D=Depletion, KM Lining, M≃Matrix	-Reduced Matrix,	55-Covered or Counce	Culta Ciulia	- Section of the Control of the Control	40000000000000000000000000000000000000	
Zerowa wa 2				oriek reserialda isterioù e N			13
ydric Soil Indic	ators			Problematic I	lydric Soll li	ndicators	Restrictive Layer (if observed)
Histosol (A1)			Below Surface (S8)	2 cm Muc			Type:
Histic Epipedor Black Histic (A:			Surface (S9) icky Mineral (F1)	Coast Pra	rie Redox (A	(16) eat (S3)	Depth (Inches):
_ Black Histic (A. _ Hydrogen Sulfi		Loamy Glo	eyed Matrix (F2)	Dark Surfa	ace (S7)		
Stratified Layer	rs (A5) v Dark Surface (A11)	Depleted i	Matrix (F3) rk Surface (F6)		Below Surfa Surface (S9)		
Thick Dark Sur	face (A12)	Depleted	Dark Surface (F7)	Iron-Mang	anese Mass Floodplain S	es (F12)	
Sandy Mucky N Sandy Gleyed		Redox De	pressions (F8)	Mesic Spo	dic (TA6)		
_ Sandy Redox (S5)			Red Parer	nt Material (T ow Dark Sur	F2) face (TF12)	
_ Stripped Matrix _ Dark Surface (olain in rema		
		estland hydrology n	uet he present unless	disturbed or prob	ematic		
		retiand nydrology if	just be present, unless	disturbed of prob	Manage State		
emarks	In Africa						
emarks							. in of ephental c
ydric Soll Present /etland Hydrology	ition Present?	No (Yes) No	Hydrologic Connectivit Does Any Part of this I Is this Wetland Potenti				ng way of ephental Clagged Boundary? (765) No N/A
Vetland Determ ydrophytic Vegeta ydric Soil Present Vetland Hydrology this Sampling Po	ation Present? (Yes) ? (Yes) No Present? (Yes) No	(Yes) No		ally isolated? (es No N		ng way of ephental Clagged Boundary? (705) No N/A

	Co. L. & Dear-		201-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
	Design & Research		DATA FORM		274 North Goodman Street
Syracuse, New	ry Street, Sulte 1000 York 13202	ROUTINE	WETLAND DETERM	INATION	Rochester, New York 14607
·	AREA STOLES	Northcentre	al and Northeast Regional Supp	plement	16 Jamlin
Project Number	r: 05030		wn: Claylon	Sampling Date:	10 28 10
Applicant:	Horse Creek Wind Farm		nty: Jefferson ate: New York	Community: _U	plal old field/forest
5.0		444 0.2201	Negroef Flor to Dat	a Point: AAA-Z	edge
Service and the party of the service	(I.e. 2W@Wel. G): \\ \\ (Nearest Flag to Dat	a 1 Olin. 174117	
	Rypin 1 och			area a potential problem a	rea? Yes No
Landform: H	illside/Seep Toe of Slope	epressional Riparlar	ls the	site significantly disturbed	Yes (No
Landscape Pos	sition: Flat Undulating Stop	ing Convex Concave)		2%
Are climatic/hyd	drologic conditions on the site typ	ical for this time of year?	Yes No		
Do Normal Circ	cumstances exist on site? (Yes	No			
Hydrology		WATER OF THE PARTY			
					A STATE OF THE STA
Primary Indica	ators (min 1 required; check	all that apply)		Sec	condary Indicators (min 2 required) Surface Soil Cracks (B6)
Surface Wa	ater (A1)		r-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Saturation		Aqua	tic Fauna (B13)	-	Moss Trim Lines (B16)
Water Mark	ks (B1)	Marl	Deposits (B15)		Dry-Season Water Table (C2) Crayfish Burrows (C8)
	Deposits (B2)	Hydro	ogen Sulfide Odor (C1) zed Rhizospheres on Livi	ing Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Depos	elts (B3) or Crust (B4)	Prese	ence of Reduced Iron (C4		Stunted or Stressed Plants (D-1)
Iron Depos	its (B5)	Rece	nt Iron Reduction in Tilled Muck Surface (C7)	Soils (C6)	Geomorphic Position (D2) Shallow Aguitard (D3)
Inundation	Visible on Aerial Imagery (B7) egetated Concave Surface (B8)		r (Explain in Remarks)		Microtopographic Relief (D4)
opaisely v	egotated contents contact (no)			***	FAC-Neutral Test (D5)
		054.79.79.79.79.65.55.5TV\$675.			
Field Observa	tions	Control of the Contro	V. 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 19		
Inundation Pres	sent? Yes	No	Depth of Water (inc	ches): inches):	
Saturated Cond	ditions? Yes	No	Depth to Water (Inc	Annual Control of the	
			a spui to i i i i i i i i i i i i i i i i i i		
Stream Chara	cteristics				
Stream type:	Morphology:	Stream Gradient:	Substrate;		Flow:
Perennial	Bank Width	Gentle	Bed Rock	Sand	
Intermittent	Stream Width	Moderate	Boulder	Silt	
	Water Depth	Steep	Cobble	Clay	Moderate
			Gravel	· ·	Heavy
Adjacent Comr	munity Type:				
Instream Cond	litions:	4		72 71 2 00	
Indu Carri Cond	Obscurred Banks	Deep Po	ols	Overhanging Very Vegetated Change	gelation
-	Well Defined Banks Eroded/Undercut Bank	Riffles &	POOIS	Other	
(ETUGEO/ORGETCOT DATK	A vitte made vitte vite and a little transcript stiffscotten for the	anganatan Taraharan Andrew		
BOND ELECTRIC					A new many and a series of Control of the series of the se
Remarks	W 19		۸		
	An Lude	logic ob	ieved,		
	No hydra	M VI			
		- 4			

Project Number: 05030 Applicant: Horse Creek Wind Farm				mpling Date: 10/78/10 ata Point ID: 140 Wet 141 AAA
Vegetation Tree Stratum (Plot size: 30-foot radius) 1. May led Oak 2. Shaghark Hickory 3. Red Arapk 4. 5 Sapling/Shrub Stratum (Plot size: 16-foot radius) 1. May	Absolute % Cover 10 10 10	Dominant Species? 45 45 45 45 45 46 Total Cover	Indicator Status Facu Facu	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: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species FAC uspecies FACU species FACU species FACU species FACU species VER SPECIES
2. gray degwood 3. ref myste 4.	20	yes yes	fac	
Herb Stratum (Plot size: 5-foot radius) 1. Splidayt) 2. Aster 3. Thomas sp. 5. 6. 7. 8. 9.	40 40 70 5	= Total Cover	for for fact fact	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic VegetationDominance Test >50%Prevalence Index is <3.0°Morphological Adaptations¹ (provide supporting data in remarks)Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators 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 3.28 ft (1 m) tail. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft in height. Remarks
Woody Vine Stratum (Plot size: 30-foot radius) 1.		= Total Cover		
5		= Total Cover		

Project Number	. 05030					Sampling Date	: 10/28/10
Applicant:	Horse Creek Wind Farm						: In wetland ADA
	17						
Soil Map Unit:	Kingsbury 5114	+ clay		-			
Soils	J !	Profile Descri	otion: (Describe to the o	lepth needed to do	cument the li	ndicator or cor	nfirm the absence of Indicators).
Depth	Matrix			Redux Feature	s		II TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TH
(inches)	Color (moist)	%	Color (moist)	Frequency ¹	Type	Locs	Texture, Structure, Other
b-16+	10,4811	100	_	` `			Silt clay
				(*)(*) ·			
					•	24	<u> </u>
		_					
				- 17			V
¹Frequency: F=F	a Few, MA=Moderately Abun	dant, C=Common					Ecs .
	intration, D=Depletion, RM	=Reduced Matrix,	CS=Covered or Coaled	Sand Grains			
*Location: PL=P	ore Lining, M=Matrix		X (100) [10]				
Hydric Soil In	dicators			Problematic H	vdric Soil In	dicators	Restrictive Layer (If observed)
Histosol (A1 Histic Epipe			Below Surface (S8) Surface (S9)	2 cm Muck	(A10) rie Redox (A	16)	Туре:
Black Histic	(A3)	Loamy Mi	icky Mineral (F1)		y Peat or Pe	at (S3)	Depth (inches):
Hydrogen S Stratified La		Loamy Gl	eyed Matrix (F2) Matrix (F3)	Dark Surface Polyvalue F	ce (S7) Below Surfac	e (S8)	
Depleted Be	elow Dark Surface (A11)	Redox Da	rk Surface (F6)	Thin Dark S	Surface (S9)		
	Surface (A12) xy Mineral (S1)		Dark Surface (F7) pressions (F8)		inese Masse Ioodplain Sc		
Sandy Gleye	ed Matrix (S4)			Mesic Spoo	dic (TA6) I Material (TF	50 \	
Sandy Redo Stripped Ma				Very Shallo	w Dark Surf	ace (TF12)	
Dark Surfac				Other (Expl	lain in remar	ks)	
3 Indicators of hy	drophytic vegetation and w	retland hydrology n	nust be present, unless	disturbed or proble	matic.		
Remarks	pure day	Cail	Mic S.	11 14	la valta	enith's	
	PW(1 day	>01 (-	May	inc c	vacion	J	
	7						
-							
. 1 ;							
Wetland Deter	rmination						
Hydrophytic Veg	etation Present? Yes (N)	Hydrologic Connectivit	y to Off-site Wetlan	ds? Yes	No NIA	
Hydric Soll Prese	ent? (es) No egy Present? Yes (No)		Does Any Part of this I is this Wetland Potenti	Delineated Wetland	/Stream Exte	end Past the F	lagged Boundary? Yes No NIA
Is this Sampling	Point Within a Wetland?	Yes (No	is the Ascralia Lorella	uny toolatour Te	o no (in	2	
	mapped in the NWI? Y		If yes, indicate classific	ation		90	
	a mapped state wetland		If yes, indicate wetland				

×			ALL DO 10000000 CHES 100000	and the state of t	· · · · · · · · · · · · · · · · · · ·
Environmental	Design & Research				274 North Goodman Street
217 Montgomer	y Street, Suite 1000		DATA FORM	MATION	Rochester, New York 14607
Syracuse, New	York 13202		WETLAND DETERMI		Rochester, New York 14007
30			l and Northeast Regional Supp		ulalio
Project Number	: 05030		wn: Clayton	Sampling Date:	Mario
•		Cou	nty: Jefferson		pfo wetlad
Applicant:	Horse Creek Wind Farm	Sta	ate: New York	Community:	pro werras
Аррисан.				050 1	
Data Point ID /	I.e. 2W@Wet. G): Lufe	wether BBB	Nearest Flag to Data	a Point: BBB-2	
Data Point ID (i.e. zwi@rrec. cy				
	11 . 10	. 0			
Investigator(s):	- Pippin Luc	Keul	le the e	area a potential problem	area? Yes (No)
	11	Depressional Riparian		alea a potential problem	uloui
Landform: Hi	lliside/Seep Toe of Slope	Depressional Riparian	Is the s	site significantly disturbe	d? Yes (No
Landsonno Dos	ition: (Flat Undulating Slo	ning Convex Concave			_0/
Lanuscape i os	Mon. (The state of the state of		Approx	dmate Slope (%):	8-216
Are climatic/hyr	drologic conditions on the site ty	pical for this time of year?	Yes No		
Ale cimationy	notogic contantons on the one sy		-		
Do Normal Circ	cumstances exist on site? Yes	No			
BS-51478-92-94341-501-0					
Hydrology	4.4			inimata a series de la composició de la co	
				5	econdary Indicators (min 2 required)
Primary Indica	tors (min 1 required; check	all that apply)			Surface Soil Cracks (B6)
	Table (A7)	√Wate	r-Stained Leaves (B9)		Drainage Patierns (B10)
Saturation			lic Fauna (B13)	-	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Mark	(S (B1)	Marl	Deposits (B15)	-	Crayfish Burrows (C8)
	peposits (B2)	Hydro	ogen Sulfide Odor (C1) zed Rhizospheres on Livi	na Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Depos	its (B3) r Crust (B4)	Prese	ence of Reduced Iron (C4)) -	Stunted or Stressed Plants (D-1)
Algai Mat o	its (B5)	Rece	nt Iron Reduction in Tilled	Soils (C6)	Geomorphic Position (D2)
	Visible on Aerial Imagery (B7)		Muck Surface (C7)		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Ve	egetated Concave Surface (B8)	Othe	(Explain in Remarks)	-	FAC-Neutral Test (D5)
	(av				
THE SHARE THE PERSON NAMED IN					
Field Observa	tlons			71)	
Inundation Pres		No	Depth of Water (inc	ines):	 :
Saturated Con-	ditions? Yes	No	Depth to Sat. Soil (i	Control of the Contro	
			Depth to Water (Inc	A105).	
CONTRACTOR OF THE STATE OF THE					
	-1-1-11-			\$50000 TO LEFT HOUSE AND SECURE OF THE	THE PARTY OF THE STATE OF THE PARTY OF THE P
Stream Chara		Olivers Ovedlanti	Substrate;		Flow;
Stream type:	Morphology:	Stream Gradient:		Cond	
Perennial	Bank Width	Gentle	Bed Rock	Sand	Gentle
Intermittent	Stream Width	Moderate	Boulder	Silt	
	Water Depth	Steep	Cobble	Clay	Moderate
2			Gravel		Heavy
Adjacent Com	munity Type:				
Instream Cond	litions:	Deep Po	ole	Overhanging \	/egetation
	Obscurred Banks Well Defined Banks	Riffles &	Pools	Vegetated Cha	annel
	Eroded/Undercut Bank		A 18/01/20	Other	
_	_ = = = = = = = = = = = = = = = = = = =		The state of the s		
	Control of the second s				
Remarks					
			-		
			-		
	* * *		-		

Project Number: 05030 Applicant: Horse Creek Wind Farm		e e		mpling Date: 11410 ata Point ID: [we wetful BBB
Vegetation Tree Stratum (Plot size: 30-foot radius) 1. Qcl Maple 2. American E(M	Absolute % Cover	Dominant Species?	Indicator Status Cal	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B)
3. <u>Silver</u> Maple 4 5		NO = Total Cover	talw	Percent of Dominant Species That Are OBL, FACW, or FAC: U(1) (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1= FACW species x2= FACW species x3= FACU species x4= FACU species x4=
Sapling/Shrub Stratum (Plot size: 16-foot radius) 1. Silly degwood 2. Honey suckle 3. Gray dogwood 4.	20	УВ NO NO	facul fac fac	UPL species x 5 =
Herb Stratum (Plot size; 5-foot radius) 1. Spilea Wow 2. Carex sp. 3. Seasifile fem 4. Green bul rush 5. 6. 7. 8.	20 40 20 10	Yes Yes Yes NO	facus facus facus	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) 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 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. Remarks
Woody Vine Stratum (Plot size: 30-foot radius) 1.		= Total Cove	r	
4. 5		≃ Total Cove	r .	

			***************************************				1111
Project Number: 0			AND MAKE			Sampling Date Data Point ID	11 11 2017
Applicant: I	Horse Creek Wind Farm					Data Politi ID	· ma were ppp
Soil Map Unit:	Chaumant	silty c	ay				
Soils		Profile Descri	otion: (Describe to the d	epth needed to	document the	Indicator or con	nfirm the absence of indicators).
Depth	Matrix			Redux Featu			11
(inches)	Color (moist)	%	Color (moist)	Frequency'	Type ²	Loc³	Texture, Structure, Other
04	1041236	~					1 5:1+ 10cm
44	1000 lds	los	75 YPA14	ma	0	M	Silt 1000
-1.	10 10 1		16.1	- To to			11/1/1000
	-		ar Beer agent				<u> </u>
						¥=	
							To the second se
	w, MA=Moderately Abund						
	ration, D=Depletion, RM= e Lining, M=Matrix	Reduced Matrix,	CS=Covered or Coaled	Sand Grains			
4977617 4 2 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				II			12
Hydric Soil Indi	cators			Problematic	Hydric Soil I	ndicators	Restrictive Layer (If observed)
Histosol (A1)		Polyvalue	Below Surface (S8)	2 cm Mu	ck (A10)		Туре:
Histic Epipedo		Thin Dark	Surface (S9)	Coast Pr	rairle Redox (A		Depth (inches):
Black Histle (A Hydrogen Sulf			ucky Mineral (F1) eyed Matrix (F2)	25	rface (S7)	eat (03)	Depth (inches).
Stratified Laye		/ Depleted	Matrix (F3) rk Surface (F6)		e Below Surfa k Surface (S9		
Thick Dark Su	rface (A12)	Depleted	Dark Surface (F7)	Iron-Man	ganese Mass	es (F12)	CANADA AND AND AND AND AND AND AND AND AN
Sandy Mucky Sandy Gleyed		Redox De	pressions (F8)		it Floodplain S oodic (TA6)	oils F19)	
Sandy Redox	(S5)			Red Pare	ent Material (T allow Dark Sur		
Stripped Matri Dark Surface					xplain in rema		8862
3 Indicators of hydro	ophytic vegetation and we	atland hydrology n	nitet ha procent tiplace	disturbed or pro	blematic		
moicators of riyure	opnyuc vegetation and we	sualid Hydrology II	lust be present, unicoo	ulotarboa or pro-	DICTITION OF		
Remarks							
V							
2							
TENTO TENTO		A SECURIOR OF THE SECURIOR OF		CONTRACTOR OF THE STATE OF THE			
Wetland Determ	nination					`	
Hydrophytic Veget Hydric Soil Presen	ation Present? (Yes)	Vo.	Hydrologic Connectivity Does Any Part of this E	to Off-site Wet	lands? Yes	No N/A	lagged Boundary Yes No N/A
Wetland Hydrology	Present? Yes No		Is this Welland Potentia	ally Isolated?	Yes No N	/A	
Is this Sampling Po	oint Within a Wetland?	Yes No	* -				
	apped in the NWI? Y		If yes, Indicate classific				
is the wetland a	mapped state wetland	Yes No	If yes, Indicate wetland	ID			

Environmental Design & Research	DATA FORM		274 North Goodman Street
217 Montgomery Street, Suite 1000 Syracuse, New York 13202	ROUTINE WETLAND DETERMIN	NATION .	Rochester, New York 14607
	Northcentral and Northeast Regional Suppl		11/4/17
Project Number: 05030	Town: Clayton	Sampling Date:	11/2/10
	County: Jefferson		uphal forest
Applicant: Horse Creek Wind Farm	State: New York	Community:	Capital 1902
Data Point ID (I.e. 2W@Wet. G): Lu @ WeHal	SSB Nearest Flag to Data	Point: 338-7	_ `
Data Folia ID (i.e. 244@frei. O).			
Investigator(s): Phoir Lockal			
1 1/4 /		rea a potential problem a	rea? Yes No
Landform: Hillside/Seep Toe of Slope Depression	al Riparlan	ite significantly disturbed?	Yes (No
Landscape Position: Flat Undulating Sloping Conv	ex Concave		-2%
	Approxi	imate Slope (%):	
Are climatic/hydrologic conditions on the site typical for this	time of year? Yes) No		
Do Normal Circumstances exist on site? (Yes) No			
Hydrology			
		Approximation of the second second second second	A Company of the Comp
Primary Indicators (mln 1 required; check all that app	(y)	Sec	condary Indicators (mln 2 required) Surface Soil Cracks (B8)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	-	Drainage Patterns (B10)
Saturation (A3)	Aquatic Fauna (B13)	-	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	-	Cravfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on Livin	g Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Soils (CA)	Stunted or Stressed Plants (D-1) Geomorphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	30iis (CO)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain In Remarks)		Microtopographic Relief (D4) FAC-Neutral Test (D5)
			.170-Neuter 1031(50)
Field Observations Inundation Present? Yes No	Depth of Water (Inch	nes): • O"	
Saturated Conditions? Yes V No	Depth to Sat. Soil (In		
t w	Depth to Water (inch	nes): 571	
Stream Characteristics	Control of a find and the state of an appropriate provided from the first of the state of the st	A STENNED ROGERY AND STOTE FOR CHESTER THE RECEIVED THE CHESTER CHESTER TO CH	2
Stream type: Morphology: Stream G	Sradient: Substrate:		Flow:
Perennial Bank Width Gentle	Bed Rock	Sand	No Flow
Intermittent Stream Width Moderate		Silt	Gentle
Water DepthSteep	Cobble	Clay	Moderate
	Gravel		Heavy
Adjacent Community Type:			
Instream Conditions:		Overhandes Mar	cototion
Obscurred Banks Well Defined Banks	Deep Pools Riffles & Pools	Overhanging Veg	
Eroded/Undercut Bank	Kanada i dala	Other	**** **** **** **** ***** ***** *******
AVERTER PARTICIPATION OF THE P			
Remarks	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	V 10 1.5	11 (5) -
Some Stading wenter	in Soil Int.	* Note.	It has been
Some Stading wonter a west fail. This 7-3 weeks.	1 0 0	100000	in HO 1954
a wet fail. This	region was the	ceivex u	III ME
7-3 weeks.	2		
18	9		

Project Number: 05030 Applicant: Horse Creek Wind Farm				ata Point ID: Wal Well BBB
Vegetation	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Species?	Status	Number of Dominant Species
1. white oak	30	405	fall	That Are OBL, FACW, or FAC: (A)
2. Slugbert hickory	20	- yes	facel	Total Number of Dominant Species Across All Strata: (B)
3. Market Hickory (modernut)	20	· Yes	fucu	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet: Total % Cover of: Multiply by:
	***************************************	= Total Cover		OBL species x1 = FACW species x2 =
	asuristana		ST 75 (TEST SEE	FAC species x3 = FACU species x4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)				UPL species x5 =
1. Hickory Suplikas	30	445	facu	
2. Oak Saplings	30	Les	face	Prevalence Index = B/A =
3. Gray dogwood (in edge)		No	Cal	
4.				
5				
		= Total Cover		Hydrophytic Vegetation Indicators: Repld Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5-foot radius)				Dominance Test >50%
1. <u>Carox</u> .	18	- Yes	facw	Prevalence Index is <3.01 Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3,	-			
4.				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
5				breast height (DBH), regardless of height. Sepling/shrub - Woody plants less than 3 in. DBH and greater
			- 4	than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
7.			· ·	and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
8.				Remarks
9.				pistinet claye from maple lelan in wested
10			· ·	maple elm in wetler
		= Total Cover		al oak lickory in
Woody Vine Stratum (Plot size: 30-foot radius)	- 1111 2012 o 17 178 a 174 mile 17 20 20 20 20 20 20 20 20 20 20 20 20 20	Partie College (Marie College) (Marie College) (Marie College)		
1. NA				adjacent uptal.
2	011			
2			-	
4.		4	0 = 311	
6				
		= Total Cover		

Project Number:	: 05030				Sampling Date	= 11/2/10
Applicant:	Horse Creek Wind Farm				Data Point ID	: 11/4/10 : he wetled 138B.
Soil Map Unit:	Chaumant si	14. 1.				
	CHAUPIANT SI	1	and (December to the d	lauth mandad to decreased the	Indiantor or one	ufirm the channes of Indicators)
Soils		Profile Descripti	on: (Describe to the d		indicator of cor	nfirm the absence of Indicators).
Depth (inches)	Malrix Color (moist)	%	Color (moist)	Redux Features Frequency Type*	Loc	Texture, Structure, Other
0-A	10483/2	(08)	Color (moist)	- — —		Sift loan
<u>4</u> +	1012 6/2	100%			S. Julia	Silt loan
L		Seption 1			y	
			*			
¹ Frequency: F=F	l ew, MA=Moderately Abunda	nt. C≃Common				
² Type: C=Conce	ntration, D=Depletion, RM=R		S=Covered or Coated	Sand Grains		
*Location: PL=Po	ore Lining, M=Matrix					
Hydric Soil Inc	dicatore			Problematic Hydric Soil I	ndlestores	Restrictive Layer (if observed)
					Holeators	
Histosol (A1 Histic Epipe	for anything	Polyvalue B Thin Dark S	elow Surface (S8) auface (S9)	2 cm Muck (A10) Coast Prairie Redox (A	A16)	Туре:
Black Histic	(A3)	Loamy Muc	ky Mineral (F1)	5 cm Mucky Peat or P		Depth (Inches):
Hydrogen St Stratified Lay		Loamy Gley Depleted M	ed Matrix (F2) atrix (F3)	Dark Surface (S7) Polyvalue Below Surfa	ce (S8)	
	low Dark Surface (A11) Surface (A12)		Surface (F6) ark Surface (F7)	Thin Dark Surface (S9 Iron-Manganese Mass		
Sandy Muck	y Mineral (S1)		ressions (F8)	Pledmont Floodplain S		
Sandy Gleye Sandy Redo	ed Matrix (S4)			Mesic Spodic (TA6) Red Parent Material (1	(F2)	300
Stripped Mai	trix (S6)			Very Shallow Dark Sur	face (TF12)	
Dark Surface	e (S7)			Other (Explain in rema	rks)	
³ Indicators of hyd	frophytic vegetation and wette	and hydrology mu	st be present, unless	disturbed or problematic,	apotentia e vicano con	
Remarks						
Nemarks Of	len. 50165.	Soi (S	do ne	t store a	l'other	Laline
J			1			7
	as seen	(1)	segi large	2/		
**************************************			, ,			
		6				
2				· ·		
Wetland Deter	mination	The same				
Hydronhytic Vegs	etation Present? Yes (No	\ н	vdrologic Connectivity	to Off-site Wetlands? Yes	No NIA	
Hydric Soil Prese	ent? (Yes) No.	D D	oes Any Part of this D	elineated Wetland/Stream Ex	tend Past the F	lagged Boundary? Yes No N/A
Is this Sampling I	gy Present? Yes No Point Within a Wetland? Ye	s (No)	this Wetland Potentia	illy Isolated? Yes No (N	A	
	napped in the NWI? Yes	_	vae Indianta alasaita	ation		
	a mapped state wetland?			ID		
				and the same of th		

			- All and a second a second and
Environmental Design & Research 217 Montgomery Street, Suite 1000	DATA FORM		Goodman Street
Syracuse, New York 13202	ROUTINE WETLAND DETERMINATION		New York 14607
	Northcentral and Northeast Regional Supplement	Sampling Date: 114	7.010
Project Number: 05030	Town: Clayton County: Jefferson		
Applicant: Horse Creek Wind Farm	State: New York	Community: Internit	lat Channel
Data Point ID (I.e. 2W@Wet. G): Iw @ Wefland	CC Nearest Flag to Data Point	: CCC-1	
Investigator(s): <u>Pippin Lockard</u>		potential problem area? Yes	6
Landform: Hillside/Seep Toe of Slope Depressional	Is the site sign	nificantly disturbed? Yes No	
Landscape Position: Flat Undulating Sloping Conver	Approximate :	Slope (%): 0-2%	
Are climatic/hydrologic conditions on the site typical for this tir	ne of year? (Yes) No		
Do Normal Circumstances exist on site? Yes No			
Hydrology			
			A CONTRACTOR OF THE PROPERTY O
Primary Indicators (min 1 required; check all that apply	n +	Secondary Ind	icators (min 2 required) I Cracks (B6)
✓ Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)		atterns (B10)
Saturation (A3)	Aquatic Fauna (B13)	Moss Trim	Lines (B16)
Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Dry-Seasor Crayfish Bu	Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on Living Roof	ts (C3) Saturation \	fisible on Aerial Imagery (C9)
Algai Mat or Crust (B4)	Presence of Reduced Iron (C4)	Stunted or s	Stressed Plants (D-1)
iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7)	C6) Geomorphi Shallow Aq	c Position (D2) ultard (D3)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopog	raphic Relief (D4)
		FAC-Neutra	Il Test (D5)
Field Observations Inundation Present? Yes No	Depth of Water (inches):	. 3	
Inundation Present? Yes No No No No No	Depth to Sat. Soil (Inches):	:	
	Depth to Water (inches):		
Stream type: Morohology: Stream Gra	adient: Substrate;	FI	OW:
Citatin (po.	Bed Rock		Flow
Perennial Bank Width 5 Gentle Intermittent Stream Width 1-21 Moderate	Boulder		entle
Water Depth 7-3" Steep	Cobble		oderate
Traini Dopini	Gravel	н	eavy
Adjacent Community Type: Active			
Instream Conditions: Obscurred Banks	Deep Pools	Overhanging Vegetation	
Well Defined Banks	Riffles & Pools	Vegetated Channel	
Eroded/Undercut Bank	V 1 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_ Other	
Remarks 1 0.35 c of Line	of cite visit o	vere very w	et.
Remarks conditions at time	hid led al	proachered u	rillin
Channel banks a an active ago muce of an ago.	The distances of	ucilina sec	tion is
an active ago	wed.	Ative face ti	elds.
more of an ag.	ditch between		TO THE PROPERTY OF THE PROPERT

	and the second s	
Environmental Design & Research	DATA FORM	274 North Goodman Street
217 Montgomery Street, Sulte 1000 Syracuse, New York 13202	ROUTINE WETLAND DETERMINATION	Rochester, New York 14607
·	Northcentral and Northeast Regional Supplement	ate: 11/4/10
Project Number: 05030	Town: Clayton Sampling D	late: 1114110
Applicant: Horse Creek Wind Farm	County: Jefferson State: New York Community	: <u>PSS</u>
Data Point ID (I.e. 2W@Wet. G): IWE WEXLAD	Nearest Flag to Data Point: DDD	-1
Data Point ID (i.e. 2W@Wet. G): \\ \W& \W&\C\\\\\\\\\\\\\\\\\\\\\\\\\\\	Nearest riag to Date 7 ons. PT D	
Investigator(s): Rippin Lockarl	Is the area a potential prof	olem area? Yes No
Landform: Hillside/Seep Toe of Slope Depressions	I Riparian Is the site significantly dist	urhed? Yes (No)
Landscape Position: Flat Undulating Sloping Conve		0-2%
Are climatic/hydrologic conditions on the site typical for this ti	me of year? (Yes) No	
Do Normal Circumstances exist on site? (Yes) No	9	
Hydrology		
Primary Indicators (min 1 required; check all that apply Surface Water (A1))	Secondary Indicators (min 2 required)Surface Soil Cracks (B6)
	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)
Vaturation (A3) Water Marks (B1)	Marl Deposits (815)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C6) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D-1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Geomorphic Position (D2) Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations Inundation Present? Yes No	Depth of Water (inches): 2-31	
Saturated Conditions? Yes No	Depth to Sat. Soil (inches):	
**	Depth to Water (inches):	
Stream Characteristics		
Stream type: Morphology: 12/ Stream Gr	adlent: Substrate;	Flow:
Perennial Bank Width 1/3 Gentle	Bed Rock Sand	No Flow
√Intermittent Stream Width 1-U Moderate	Boulder Silt	Gentle
Water Depth 2-3" Steep	Cobble Clay V	Heavy
Adjacent Community Type: Ag Field. (May Rel)	Glaver	
instream Conditions.		ng Vegetation
✓ Obscurred Banks Well Defined Banks	Deep Pools Overhand Riffles & Pools Vegetated	
Eroded/Undercut Bank	Other	
Romarks Intermited Extends out of PCS	wettand into Ay. Geld	. this Churrel
1 . C . Mr.	into the PSS westendo	
drains from NE	into the PSS westerle	
7 T		
P , w		8

Project Number: 05030 Applicant: Horse Creek Wind Farm			Sa Da	mpling Date: 11410 ata Point ID: we we that DID
Vegetation Tree Stratum (Plot size: 30-foot radius) 1	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
5 Sapiling/Shrub Stratum (Plot size: 15-foot radius)		= Total Cover		Percent of Dominant Species
1. (Sillow) 2. Silky Login o ol 3.	<u> 10</u>	Les No	talw	Column Totals: (A) (B) Prevalence Index = B/A =
6		= Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test >50%
1. Solidayo 2. Actor 3. Gren bujust	30	-965 -465 NO	facu facu bbb	Prevalence Index is ≤3.01 Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and wellend hydrology must be present, unless disturbed or problematic.
4. Foth auch 5 Woolgass	10	00 04 04	bhl Facw	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 3.28 ft (1 m) tall.
6. (Wek 7. seed Canny Grass 8.	10	N9	facw	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. Remarks
9		= Total Cover	Palvessia sovo (TV)	been mowed. This area
Woody Vine Stratum (Plot size: 30-foot radius) 1.				would normally be a scrubs (should welful.) Adjust welled is a undisturbed pss.
5		= Total Cover	•	

THE RESERVENCE	Name and Address of the Owner o	THE RESERVE OF THE PARTY OF THE		THE RESERVE TO THE REAL PROPERTY.	BERLE STORY		
Project Number	: 05030					Sampling Date	: 11/4/10
Applicant:	Horse Creek Wind Fam	1				Data Point ID	(())
					-		AA I
Soil Map Unit:	- Chaument	Silty cla	4				
Solls		Profile Descrip	otion: (Describe to the d	epth needed to	document the	Indicator or co	nfirm the absence of indicators).
Depth	i Matrix			Redux Fea			N
(Inches)	Color (moist)	%	Color (molst)	Frequency	WAS A STATE OF THE PARTY OF THE	Loc	Texture, Structure, Other
0-5	104126/1	100		·		-	Silt loan
5+	1048 C/1	100	7.5-YR-44			M	Sitt loan
0 '	10 14 11		7.1 10 14	Ma		- 7/(1 17 17 10cm
					-		
			WIS-				
						-	
¹ Frequency: F=I] Few, MA=Moderately Abu	ndant C=Common					
² Type: C=Conce	entration, D=Depletion, RA		CS=Covered or Coated	Sand Grains			
*Location: PL=P	ore Lining, M=Matrix						
			75-0-10-0-10-0-4-0-0-10-0-10-0-10-0-10-0-				
Hydric Soil In	dicators			Problemati	c Hydric Soll	Indicators	Restrictive Layer (if observed)
Histosol (A1			Below Surface (S8)		luck (A10)	A4C)	Туре:
Histic Epipe Black Histic			Surface (S9) icky Mineral (F1)		Prairie Redox (lucky Peat or F		Depth (Inches):
Hydrogen S			eyed Matrix (F2)		urface (S7)	000 (99)	
Stratified La Depleted Bo	elow Dark Surface (A11)	Depleted I Redox Da	rk Surface (F6)		ue Below Surfa ark Surface (S!		
	Surface (A12)		Dark Surface (F7)		anganese Mas ont Floodplain 3		statuta Statuta
	ky Mineral (S1) ed Matrix (S4)	Redux De	pressions (F8)		Spodic (TA6)	30113 F 19)	
Sandy Redo					rent Material (nallow Dark Su		
Dark Surfac			*		Explain in rema		0.00
3 Indicators of by	drophytic vegetation and v	eatland hydrology m	uset ha propent unlose	listurbad or no	oblematic		
indicators of the	dropriyac vegetadori and t	vetralia hydrology	ust be present, unless	astoroco or pr			
Remarks							
AND SHALL AND AND CONTRACTOR							
*							
1							
Wetland Dete	rmination						
Hydrophytic Vea	etation Present? (Pes)	No	Hydrologic Connectivity	to Off-site We	etlands? (Yes	No N/A	
Hydric Soil Pres Wetland Hydrold	ent? Yes No ogy Present? Yes No Point Within a Wetland?		Does Any Part of this D Is this Wetland Potentia	elineated Wet	Yes No N	ktend Past the F	lagged Boundary? (Yes)No N/A
is the wetland	mapped in the NWI?	res (No	If yes, Indicate classific				
Is the wetland	a mapped state wetland	d? Yes (No)	If yes, Indicate wetland	ID	<u> </u>		

A CONTRACTOR OF THE CONTRACTOR			-
Environmental Design & Research	DATA FORM	274 North Goodman Street	
217 Montgomery Street, Suite 1000	DATA FORM		
Syracuse, New York 13202	ROUTINE WETLAND DETERMI		
	Northcentral and Northeast Regional Supp	Sampling Date: 11 4 10	
Project Number: 05030	Town: Claylon	Company pater High	•
	County: Jefferson	community: Aq Field	200000
Applicant: Horse Creek Wind Farm	State: New York	Community. 12 1 1010	-
Data Point ID (i.e. 2W@Wet. G): \ughtarrow \undersetter \	Nearest Flag to Data	Point: DDD~/	
Data Point ID (i.e. 200@Wet. G): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V V Realest riag to Date	TOTAL TENED	靈
<u> </u>	and the second s	3	
Investigator(s): Rippin Lockwol	Ja the o	rea a polential problem area? Yes (N)	
Landform: Hillside/Seep Toe of Slope Depression	al Riparlan		
Landionin. Hillstate och 10e ot otopa Depression	is the s	ite significantly disturbed? Yes (No)	
Landscape Position: Flat Undulating Sloping Con-	rex Concave	101	
	Approx	imate Slope (%): 0 - U/U	
Are climatic/hydrologic conditions on the site typical for this	time of year? (Yes) No		
De Named Cleanerstoness suitai en elia? (Val. 11a			
Do Normal Circumstances exist on site? (Yes No			
Hydrology			
Harviogy			壓
About a side and the second and the Subscript Research and the subscript and second and the side of the side of	See and See See See See See See See See See Se		
Primary Indicators (min 1 required; check all that app	ly)	Secondary Indicators (min 2 required)	
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Table (A2) 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) GRoots (C3) Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	 Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4) 		
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Tilled	Soils (C6) Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Agultard (D3)	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)	
			-
Field Observations	Doub efficient doub	nee).	
Inundation Present? Yes No No No	Depth of Water (Incl Depth to Sat. Soil (in	nches):	
Saturated Conditions? Yes No	Depth to Water (Incl		
	property result from		ng+n,s
Stream Characteristics	2 5 9		
Stream type: Morphology: Stream C	Gradient: Substrate:	Flow;	
Perennial Bank Width Gentle	Bed Rock	Sand No Flow	
Intermittent Stream Width Moderate	Boulder	Silt Gentle	
Water Depth Steep	Cobble	Clay Moderate	
	Gravel	Heavy	
Adjacent Community Type:	1-20-3		
Instream Conditions:	Deep Pools	Overhanging Vegetation	
Obscurred Banks Well Defined Banks	Riffles & Pools	Vegetated Channel	
Eroded/Undercut Bank		Other	
Section 2. Little Committee Committe			
			1.00
Remarks to 11.1.1.			
Remarks 10 Hydrology Observed.			
· · · J J J			
MELONE .			

			mpling Date: 1/4 10 ata Point ID: 40 We: 142 1200
		Di	ata Point ID: 100 100 100 100 100
Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B)
	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:
15	yes	fam	FACU species
	<u> </u>	+46	
4	= Total Cover		Hydrophytic Vegetation Indicators: Repid Test for Hydrophytic Vegetation
BO Juach	yes	facu	Dominance Test > 50% — Prevalence Index Is ≤3.0¹ — Morphological Adaptations¹ (provide supporting data in remarks) — Problematic Hydrophylic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and welland 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 3.28 ft (1 m) tail. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft in height.
			Remarks Flayfield al Shub area
	= Total Cover		hers been recently mound 1d of veg. species is
			difficult with dust have stemmer a distinct difference between
	= Total Cover		that correspond with uptill area.
	% Cover	# Total Cover = Total Cover = Total Cover = Total Cover = Total Cover	Absolute Species? Indicator Status = Total Cover

							. 101.0
Project Number	r: 05030					Sampling Date	
Applicant:	Horse Creek Wind Farm		C			Data Point ID	: Me insteal ppD
Soil Map Unit:	Chaument	silty o	elay	202			
Soils		Profile Descr	ription: (Describe to the c	lepth needed to d	document the	indicator or cor	nfirm the absence of Indicators).
Doub I	I Matrix			Redux Featu	roe		li e
Depth (inches)	Color (molst)	%	Color (moist)	Frequency'	Type ²	Loc³	Texture, Structure, Other
	1044.612			-		~	Silt loam
0-110+	1 000 110	190			-	<i>977</i> W.	3(((1000))
				-			
¹ Frequency: F= ² Type: C=Conc] Few, MA=Moderately Abund entration, D=Depletion, RM=	ant, C=Common Reduced Matrix	l 1 , CS≃Covered or Coaled	I Sand Grains			- 日
	Pore Lining, M=Matrix				TT TATUS TERMOSOS	25922 Kazas Jakoba	
Hydric Soll Ir	ndicators			Problematic			Restrictive Layer (if observed)
		6.1.1.	- D-1 0:f (CO)	0 11	-L- (A4M)		Brane :
Histosol (A Histic Epipe			e Below Surface (S8) k Surface (S9)	2 cm Muc Coast Pri	ck (A10) airie Redox (A	(16)	Type:
Black Histic	c (A3)	Loamy N	Aucky Mineral (F1)	100	cky Peat or Pe	eat (S3)	Depth (Inches):
Hydrogen S Stratified L			Gleyed Matrix (F2) I Matrix (F3)		face (S7) Below Surfa	ce (S8)	
	elow Dark Surface (A11)	Redox D	ark Surface (F6)	Thin Dark	k Surface (S9))	
	Surface (A12)		d Dark Surface (F7)		ganese Mass t Floodplain S		
	ky Mineral (S1) /ed Matrix (S4)	Redox L	epressions (F8)		odic (TA6)	olis F 19)	
Sandy Red	ox (S5)			Red Pare	ent Material (T		Water Control
Stripped Ma Dark Surfa				Other (F)	llow Dark Sur opiain in rema	face (TF12) rks)	
						,	
³ Indicators of hy	drophytic vegetation and we	tland hydrology	must be present, unless	disturbed or prot	olematic.		
Remarks	non mydri	7					
^							
					T .		
					(e)		
A STATE OF THE STA							
Wetland Dete	rmination		The Control State of the Control of	**************************************	202100000.41020		St. Barrier L. Gallander (2004) All Charles (All Charles
Hydric Soil Pres Wetland Hydrol	getation Present? Yes (No sent? Yes (No ogy Present? Yes (No Point Within a Wetland?	_	Hydrologic Connectivity Does Any Part of this I Is this Welland Potenti	Delineated Wetlan	nd/Stream Ex	lend Past the F	Flagged Boundary? Yes No N/A
	mapped in the NWI? Ye a mapped state wetland?		If yes, indicate classific If yes, indicate wetland				

	The state of the s		
Environmental Design & Research	DATA CODE	27/1	Jorth Goodman Street
217 Montgomery Street, Suite 1000	DATA FORM ROUTINE WETLAND DETER!		ester, New York 14807
Syracuse, New York 13202	Northcentral and Northeast Regional Su		1
Project Number: 05030	Town: Clayton	Sampling Date:	5110
Trojost Humbert 00000	County: Jefferson		1000
Applicant: Horse Creek Wind Farm	State: New York	Community: Well	Mealow
Data Point ID (i.e. 2W@Wet. G): \ \ W@ Wetlank	Nearest Flag to Da	ata Point: EEE - 3	
<u> </u>			
Investigator(s): Pippin Lockark	ls the	e area a potential problem area?	Yes Ng
Landform: Hillside/Seep Toe of Slope Depressions	al Riparlan	e site significantly disturbed? Yes	
Landscape Position: Flat Undulating Sloping Conve	ex (Concave)	oximate Slope (%): 3%	
Are climatic/hydrologic conditions on the site typical for this t	/		_
Do Normal Circumstances exist on site? (Fes) No			
~			
Hydrology			
		THE RESERVE THE PROPERTY OF TH	
Primary Indicators (min 1 required; check all that appl	y)		ry Indicators (min 2 required)
✓ Surface Water (A1) High Water Table (A2)	√Water-Stained Leaves (B9)		ce Soll Cracks (B6) age Patterns (B10)
Saturation (A3)	Aquatic Fauna (B13)	Moss	Trim Lines (B16)
Water Marks (B1)	Marl Deposits (B15)		eason Water Table (C2) sh Burrows (C8)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Li	ving Roots (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C	(4) Stunte	ed or Stressed Plants (D-1)
Iron Deposits (B5)	Recent Iron Reduction in Tille		orphic Position (D2) ow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Thin Muck Surface (C7) Other (Explain In Remarks)	Micro	topographic Relief (D4)
operating regulated contains annual last			Neutral Test (D5)
Fleld Observations	S	nches) · Z	
Inundation Present? Yes V No No No	Depth of Water (in Depth to Sat. Soil	ionooj.	
Salurated Conditions? Yes No	Depth to Water (in		
Stream Characteristics			
Stream type: Morphology: , Stream G	radient: Substrate:		Flow;
Perennial Bank Width	Bed Rock	Sand	No Flow
√Intermittent Stream Width Moderate	Boulder	Silt	Gentle
Water Depth 2-3 11 Steep	Cobble	Clay	Moderate
	Gravel		Heavy
Adjacent Community Type:			
Instream Conditions:	200 200 00		
Obscurred Banks	Deep Pools	Overhanging Vegetation	1
Well Defined Banks Eroded/Undercut Bank	Riffles & Pools	Vegetated Channel Other	
	hannel that weadow		ALI Call
Remarks / /consilled	hannel that	drains Com	an Did Held
A Small Intermitted	Δ	10/0 =	December
	neadow	1100 2	resemble
A Small Intermitted Co	· • · · · · · · · · · · · · · · · · · ·		
channely			
Channely			- V.

Desiral Number 05020			Sa	mpling Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Project Number: 05030 Applicant: Horse Creek Wind Farm				ata Point ID: We well CEE
Vegetation				
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			-	Total Number of Dominant Species Across All Strata: (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet:
5		= Total Cover		Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 =
<u>Sapling/Shrub Stratum</u> (Plot size: 15-foot radius)				FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
1				Prevalence Index = B/A =
3.	,			
5				
<u>Herb Stratum</u> (Plot size: δ-foot radius)		= Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.01
1. Solidayo	15	yes_	wood was	Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) Indicators of hydric soil and wetland hydrology must be present,
3. reed carry grass	lo	100	form	unless disturbed or problematic. Definitions of Vegetation Strata:
4. Sobla alba	35	<u>001</u>	-Fac	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
6. Wester grass.	15	485	form	than 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.
8.				Remarks
9				
		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius) 1.		-		
2.	•			
4.				
5		= Total Cover		

Project Number:	05030					Sampling Date	: 11/5/10
Applicant:	Horse Creek Wind Farm					Data Point ID	: TWO WEND EEE
Soil Map Unit:	Guffin Cla	y -					
Solls		Profile Descr	iption: (Describe to the d	epth needed to d	ocument the	Indicator or cor	firm the absence of indicators).
Depth	Matrix		ř	Redux Featur	es		
(inches)	Color (moist)	%	Color (molst)	Frequency'	Type ²	Loc	Texture, Structure, Other
0-4	1048 41		MARCHA			-	61 (+ (om
44	104861		10425/8	F	0	M	1 5177 loan
² Type: C=Concen	w, MA=Moderately Abundan tration, D=Depletion, RM=Re re Lining, M=Matrix			Sand Grains			
				H			H
Hydric Soil Ind	icators			Problematic I	Hydric Soil I	ndicators*	Restrictive Layer (if observed)
Histosol (A1) Histic Epiped			e Below Surface (S8) k Surface (S9)	2 cm Muc	k (A10) sirie Redox (A	A16)	Туре:
Black Histic (A3)	Loamy N	lucky Mineral (F1)	5 cm Muc	ky Peat or Pe		Depth (Inches):
— Hydrogen Su Stratified Lay			leyed Matrix (F2) Matrix (F3)	Dark Surf Polyvalue	ace (S7) Below Surfa	ce (S8)	
Depleted Bel	ow Dark Surface (A11)	Redox D	ark Surface (F6) Dark Surface (F7)		Surface (S9 ganese Mass		
Thick Dark St Sandy Mucky			epressions (F8)	Piedmont	Floodplain S		
Sandy Gleyed Sandy Redox					odic (TA6) nt Material (T	(F2)	
Stripped Matr	ix (S6)			Very Shall	low Dark Sur plain in rema	rface (TF12)	
Dark Surface						-	
Indicators of hydr	rophytic vegetation and wetla	nd hydrology	must be present, unless	disturbed or prob	iemauc.	6.246298.553	.II
Remarks	1 1	10	Form	past	Ac.	9.2	Livities.
5	orls dist	whex		1	117		
*							
	*						· · · · · · · · · · · · · · · · · · ·
Wetland Deterr	nination			The Control of the Co			
Hydrophytic Vege			Hydrologic Connectivity	v to Off-site Wetla	ands? Yes	No N/A	
Hydric Soil Presei Wetland Hydrolog	nt? (Yes) No ny Present? (Yes) No Point Within a Wetland? (Yes)) No	Does Any Part of this E is this Wetland Potenti	Delineated Wetlar	nd/Stream Ex		lagged Boundary? (es) No N/A
Is the wetland m	napped in the NWI? Yes, mapped state wetland?		If yes, Indicate classific If yes, Indicate wetland	ation PSSI	A_		

	I Design & Research ry Street, Suite 1000		DATA FORM		274 North Goodman Street
Syracuse, New	S♥ 1.00 - 1.00	:50E3TW3TOR4TSYSTEM	VETLAND DETERN and Northeast Regional Sup		Rochester, New York 14607
Project Number	r: 05030		vn: Clayton	Sampling Date	: 115/10
Applicant:	Horse Creek Wind Farm		ty: Jefferson te: New York	Community:	Old Field
	7.e. 2W@Wet. G): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10 Stud EEE	Negraet Floa to De	nta Point: EEE-C	
Data Point ID (1.e. 200@Wet. G):		Nearest Flag to Da	ia, oii.	
Investigator(s):	- 11		Is the	area a potential problen	narea? Yes No
		Depressional Riparian	Is the	site significantly disturb	ed? Yes (No)
Landscape Pos	sition: Flat Undulating Slop	Ing Convex Concave	Appro	oximate Slope (%):	0-290
Are climatic/hyd	drologic conditions on the site typ	ical for this time of year?	05 No		
Do Normal Circ	cumstances exist on site? Yes	No No			
Hydrology					
Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi Inundation Sparsely Ve	Table (A2) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Water-Aquatic Mad D Hydrog Oxidize Preser Recent Thin M Other (Depth to Water (in	ring Roots (C3) 4) d Soils (C6)	
Stream type: Perennial	Morphology: Bank Width	Stream Gradient: Gentle	Substrate; Bed Rock	Sand	Flow: No Flow
Perennial Intermittent	Stream Width	Moderate	Boulder	Silt	Gentle
	Water Depth	Steep	Cobble	Clay	Moderate Heavy
Adjacent Comn	nunity Type:				1
Instream Condi	itions: _ Obscurred Banks _ Well Defined Banks _ Eroded/Undercut Bank	Deep Pool		Overhanging V Vegetated Cha	regetation innet
Remarks	Some starts	my water erwike n	due to	rain at	hydrology.
.4					

Project Number: 05030 Applicant: Horse Creek Wind Farm				ampling Date: 11/5/10 ata Point ID: 1 ue Westart EEE
Vegetation <u>Tree Stratum</u> (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
1				Total Number of Dominant Species Across All Strata: (6)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: \(\begin{array}{c} \begin{array}{c}
5		= Total Cover		Prevalence Index worksheet: Total % Cover of: OBL species FACW species X 1 =
	-	- Total Gover		FAC species x3=
Sapling/Shrub Stratum (Plot size: 15-foot radius)				FACU species x4= UPL species x5=
				Column Totals: (A) (B
	17	-	-	Prevalence Index = B/A =
2.				
3.			-	2
4				
5				
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 8-foot radius)				Rapid Test for Hydrophytic Vegetation Dominance Test >50%
1. Red Coman grass	op	wes	facu	Prevalence Index Is ≤3.0 ¹ Morphological Adaptations ¹ (provide supporting data in remarks)
		No	Jacob	Problematic Hydrophytic Vegetation (explain in remarks)
2. Colidago Sp. 1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Bylet Sp.		70	follow	Definitions of Vegetation Strata:
4	-		1	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5				Sapling/shrub - Woody plants less than 3 in. DBH and greater
6.				than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
	DATE:			and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
8.	*			
9.				dominue of good carry
10.	K 1000	= Total Cover		dominue of teed carry
		= Total Cover		grass.
Woody Vine Stratum (Plot size: 30-foot radius)				* Field has been fluited
1. VA	V	-		
3.				with the supplys.
4.				survivorship of these
5				tree suplings is low.
		= Total Cover		

						-	o: 11/5/10	
Project Number Applicant:	Horse Creek Wind Farm	- National				Sampling Date Data Point ID	111 @ W	ethal-tte
гурпости	TOO OLON THIS CO.				é	Data i viii io	. 1040	
Soil Map Unit:	Gulfin C	ay						
Solis		Profile Descripti	ion: (Describe to the c	depth needed to d	focument the	Indicator or cor	nfirm the absence	e of indicators).
Depth	Matrix			Redux Featur	res			
(Inches)	Color (moist)	%	Color (moist)	Frequency'	Type ²	Loc	Textur	re, Structure, Other
0-16+	102/20/1						Silf	. (our
² Type: C=Conc	Few, MA=Moderately Abund		S=Covered or Coate	d Sand Grains				
	Pore Lining, M=Matrix							
Hydric Soil In Histosol (A Histic Epipe Black Histic Hydrogen S Stratified Le Depleted B Thick Dark Sandy Muci Sandy Gley Sandy Red Stripped Me Dark Surface	ndicators (1) ledon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surface (A11) cky Mineral (S1) yed Matrix (S4) lox (S5) latrix (S6) ce (S7)	Polyvalue Br Thin Dark St Loamy Muck Loamy Gleyt Depleted Ma Redox Dark Depleted Da Redox Depn Redox Depn	Below Surface (S8) Surface (S9) sky Mineral (F1) red Matrix (F2) atrix (F3) s Surface (F6) ark Surface (F7) ressions (F8)	Problematic I 2 cm Muc Coast Pra 5 cm Muc Dark Surf Polyvalue Thin Dark Iron-Mang Pledmont Mesic Spa Red Pare Very Shal Other (Ex	Hydric Soll III ck (A10) elrie Redox (A cky Peat or Pe face (S7) e Below Surface k Surface (S9) ganese Masso t Floodplain Sodic (TA6) ent Material (T llow Dark Sur cplain in remain	A16) eat (S3) ace (S8) b) es (F12) Solls F19) aface (TF12) urks)	Restrictive Type: Depth (inch	Layer (if observed)
Remarks	Sorls distu	hed frev	n past	agoren	tural	ach	ulies.	
							erika benera	
Wetland Dete	rmination							
Hydric Soil Pres Wetland Hydrold	getation Present? Yes No sent? (No No ogy Present? Yes (No point Within a Wetland?)	Do Is	ydrologic Connectivity oes Any Part of this D this Wetland Potentia	Delineated Wetlan		tend Past the F	lagged Boundary	? Yes No N/A
	mapped in the NWI? Ye a mapped state wetland?		yes, Indicate classific yes, Indicate wetland					

Environmental Design & Research	DATA FORM	274 North Goodman S	treet
217 Montgomery Street, Suite 1000	ROUTINE WETLAND DETER		
Syracuse, New York 13202	Northcentral and Northeast Regional S		randinin
	Town: Clayton	Sampling Date: 11 5 10	
Project Number: 05030			
	County: Jefferson	Community: PSS IC	
Applicant: Horse Creek Wind Farm	State: New York		
Data Point ID (I.e. 2W@Wet, G): \w@wellyl	116	lata Point: FFF - 37	
Data Point ID (I.e. 2W@Wet. G): \www.we-flux	Nearest Flag to L	ata Point: 111	
<u> </u>	10 AUT 32 C 16 C 17 A 18 C 16 C 20 F 4 C 17 C 17 C 18 C 18 C 18 C 18 C 18 C 18		,00 V.
Investigator(s): Pippin Luckard			
		e area a potential problem area? Yes No	
Landform: HillsIde/Seep Toe of Slope Depressio	nal) Riparlan	e site significantly disturbed? Yes No	
Landscape Position: Flat Undulating Sloping Con	vex Concave	e site significantly disturbed?	
Landscape Position. Frat Oridinating Stoping Son	App	roximate Slope (%): 0~Z%	
Are climatic/hydrologic conditions on the site typical for this	/ \ ''		
Ale climation yor ologic conditions on the site oppositor and			
Do Normal Circumstances exist on site? (Yes No		, ·	
Hydrology			
		Secondary Indicators (mi	n 2 required)
Primary Indicators (min 1 required; check all that ap	oly)	Surface Soil Cracks (B6	
✓ Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	Drainage Patterns (B10	
Saturation (A3)	Aquatic Fauna (B13)	Moss Trim Lines (816)	. (00)
Water Marks (B1)	Marl Deposits (B15)	Dry-Season Water Tabl Crayfish Burrows (C8)	8 (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Óxidized Rhizospheres on I.		rial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron ((24) Stunted or Stressed Pla	nts (D-1)
Iron Deposits (B5)	Recent Iron Reduction in Til	ed Soils (C6) Geomorphic Position (D	2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	— Shallow Aquitard (D3) Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain In Remarks)	FAC-Neutral Test (D5)	(P4)
			an an ar area than the proof the factor
Field Observations		24"	<u> </u>
Inundation Present? Yes No	Depth of Water (inches): 3-4"	
	Depth to Sat. So	I (Inches):	
Inundation Present? Yes No	Depth of Water (Depth to Sat. So Depth to Water (I (Inches):	<u></u>
Inundation Present? Yes No	Depth to Sat. So	I (Inches):	· · · · · · · · · · · · · · · · · · ·
Inundation Present? Saturated Conditions? Yes No No No	Depth to Sat. So	I (Inches): du	
Inundation Present? Saturated Conditions? Yes No No Stream Characteristics	Depth to Sat. So Depth to Water (I (Inches): du	· · · · · · · · · · · · · · · · · · ·
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Stream	Depth to Sat. Sol Depth to Water (I (Inches): 0 or nches): 0 fr	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Stream Gentle	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock	I (Inches): 0 or nches): 0 fr Flow: No Flow	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle Xintermittent Stream Width Foot Moderal	Depth to Sat. Sol Depth to Water (Gradient: Substrate; Bed Rock Boulder	(Inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble	(Inches):	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-41 Steep	Depth to Sat. Sol Depth to Water (Gradient: Substrate; Bed Rock Boulder Cobble Cobble	(Inches):	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Moderal Moderal	Depth to Sat. Sol Depth to Water (Gradient: Substrate; Bed Rock Boulder Cobble Cobble	(Inches):	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Spluce Blest Ag	Depth to Sat. Sol Depth to Water (Gradient: Substrate; Bed Rock Boulder Cobble Gravel	(Inches):	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Spluce Blest Ag	Depth to Sat. Sol Depth to Water (Gradient: Substrate; Bed Rock Boulder Cobble Gravel	(Inches):	
Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-Au Steep Adjacent Community Type: Sprace Brest Ag	Depth to Sat. Sol Depth to Water (Gradient: Substrate; Bed Rock Boulder Cobble Gravel	Sand Flow: Sand No Flow Gentle Clay Moderate Heavy Overhanging Vegetation Vegetated Channel	
Stream Conditions? Stream Width Foot Moderal Stream Water Depth 3-4" Steep Adjacent Community Type: Sprace Black Age Instream Conditions: Obscurred Banks in (chair arms)	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools	(Inches):	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle Water Depth 3-4" Steep Adjacent Community Type: Spruce Bless Ag Instream Conditions: Well Defined Banks	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools	Sand Flow: Sand No Flow Gentle Clay Moderate Heavy Overhanging Vegetation Vegetated Channel	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle Water Depth 3-4" Steep Adjacent Community Type: Spruce Bless Ag Instream Conditions: Well Defined Banks	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools	Sand Flow: Sand No Flow Gentle Clay Moderate Heavy Overhanging Vegetation Vegetated Channel	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Stream Perennial Bank Width Foot Gentle Water Depth 3-411 Steep Adjacent Community Type: Sprace Banks in (crisis des) Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X'Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X'Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X'Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	
Stream Characteristics Stream type: Morphology: Perennial Bank Width Foot Gentle X'Intermittent Stream Width Water Depth 3-411 Steep Adjacent Community Type: Sprace Brest Ag Instream Conditions: Well Defined Banks Eroded/Undercut Bank	Depth to Sat. Sol Depth to Water (Gradient: Substrate: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Gentle Moderate Heavy Overhanging Vegetation Vegetated Channel Other	

Applicant: Horse Creek Wind Farm Vegetation Tree Stratum (Plot size: 30-foot radius) Absolute Species? Absolute Species? Species? Status Number of Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: WO (A/B) Absolute Dominant Indicator Species? That Are OBL, FACW, or FAC: WO (A/B) Prevalence Index worksheet:	
Absolute Species? Status Dominant Species Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species That Are OBL, FACW, or FAC: 2. Percent of Dominant Species That Are OBL, FACW, or FAC: 4. Prevalence Index worksheet:	
Tree Stratum (Plot size: 30-foot radius) Species Status Number of Dominant Species That Are OBL, FACW, or FAC: (A)	763 6
2. Species Across All Strata: (B) 3. Percent of Dominant Species That Are OBL, FACW, or FAC: (D) (A/B) Prevalence Index worksheet:	
That Are OBL, FACW, or FAC: \(\big(\Dil)\) (A/B 4. Prevalence Index worksheet:	
The W)
Total % Cover of: Multi	iply by:
OBL species x1 =	(5) v).
= Total Cover FACW species x2 = FAC species x3 =	
FACU species x4 =	
Column Totals: (A)	(8
1. Gilky dagwood 3> 4e) fa(w) Prevalence Index = B/A =	
2. Gray dogwood 10 NO fal	
3. Salix sp 25 yes facu	
4. Alder Sp. 10 NO PY	
5	
□ Total Cover Hydrophytic Vegetation Indicators: Repid Test for Hydrophytic Vegetation	,
Herb Stratum (Plot size: 6-foot radius) Dominance Test > 50% Prevalence Index is ≤3.01	
1 Bed Carum arus 25 465 two Morphological Adaptations' (provide supporti	ng data in remarks)
2. Julius Caffusus 35 yes Oll Problematic Hydrophytic Vegetation' (explain indicators of hydric soil and welland hydrology r	i in remarks) must be present,
3. Golidana SPP. 15 NO FACH unless disturbed or problematic.	
4 ASIGN SOO. IS NO FOUN Tree - Woody plants 3 In. (7.6 cm) or more in dia	ameter at
5 (LLNC US + CLUS 5 NO FOL Sapling/shrub - Woody plants less than 3 in. DB	
6. SCI pus Atrovives 10 NO obt Herb - All herbaceous (non-woody) plants, regard and woody plants less than 3.28 ft tell. Woody vines - All woody vines greater than 3.28	
8. Remarks	
9 Some America	. elm
9 Some punction 10 In (Sporadic) in	areas,
Woody Vine Stratum (Plot size: 30-foot radius) A typical drawing	
1. NA along Aq. Rield	al
Corp. (+ (wet) that	17.
1' . ALT 16 14	-tallers es
a spince forest	- Shul.
= Total Cover	

Project Number:	: 05030				1	Sampling Date	: (1/5/10	
Applicant:	Horse Creek Wind Farm					1150 055	: Iwe wel	tal TPP
Soil Map Unit:	Chaumont	5:14 c	clay	= 17.				
Solls		Profile Descrip	ption: (Describe to the d	lepth needed to de	ocument the	Indicator or cor	nfirm the absence of	Indicators).
Depth	Matrix			Redux Feature				
(Inches)	Color (moist)	<u>%</u>	Color (moist)	Frequency ¹	Type*	Loc		Structure, Other
0-6	1078 11						9:14 (Cly
(o s-	10920/1		10412 218				Silt C	luj
			11,		7.2			1
					<u> </u>			
		Too See			A			
			.*:	*		- Alvinois		
	h			-				0.516.5411
	Few, MA=Moderately Abundentration, D=Depletion, RM=		CS=Covered or Coated	Sand Grains				
	ore Lining, M=Matrix				TATABAN SANAS	44 00000000000000000000000000000000000		50000000000000000000000000000000000000
			A STATE OF THE STA	II	A CASE SERVICES			A STATE OF THE PARTY OF THE PAR
Hydric Soil Inc	dicators			Problematic H	lydric Soil Ir	ndicators	Restrictive La	yer (if observed)
Histosol (A1			Below Surface (S8) Surface (S9)	2 cm Mucl	k (A10) airie Redox (A	440)	Туре:	W. W
Histic Epipe Black Histic	(A3)	Loamy Mu	ucky Mineral (F1)	5 cm Muck	ky Peat or Pe		Depth (Inches	s):
Hydrogen Statified La	ulfide (A4)	Loamy Gle	eyed Matrix (F2) Matrix (F3)	Dark Surfa				
Depleted Be	elow Dark Surface (A11)	Redox Da	ark Surface (F6)	Thin Dark	Surface (S9))		
	Surface (A12) xy Mineral (S1)		Dark Surface (F7) epressions (F8)		ganese Masse Floodplain Sc			
	ed Matrix (S4)			Mesic Spo				
Stripped Ma	itrix (S6)			Very Shall	low Dark Surf	rface (TF12)		
Dark Surface	e (S7)			Other (Exp	plain in remar	rks)	100 M	
³ Indicators of hyd	drophytic vegetation and we				lematic.			and the second second second second second second
								A CONTRACTOR OF THE CONTRACTOR
Remarks						4		
*								
		Y EXECUTE TO						
Wetland Deter	rmination				14 4 HII	Officer (A)		
1977		la la	Hydrologic Connectivity	o to Off elte Wetla	ander Nes) NO NIA		
Hydric Soli Prese Wetland Hydrolo	etation Present? Yes No ent? Yes No egy Present? Yes No Point Within a Wetland?		Does Any Part of this D is this Wetland Potentia	Delineated Wetland	d/Stream Ext	tend Past the FI	lagged Boundary?	Yes No N/A
	mapped in the NWI? Ye a mapped state wetland?		If yes, indicate classificate from the second of the secon				s	

	and the same of th	and the second	and the second second
Environmental Design & Research		07/11/11/0	an Olerad
217 Montgomery Street, Suite 1000	DATA FORM	274 North Goodma	STATE OF THE PARTY
Syracuse, New York 13202	ROUTINE WETLAND DETERMINA		01K 140V1
(See 19)	Northcentral and Northeast Regional Supplem	/// /	
Project Number: 05030	Town: Clayton	Sampling Date:	
	County: Jefferson	— ·	1.
Applicant: Horse Creek Wind Farm	State: New York	Community: Space For	est
		xxc. 122	
Data Point ID (i.e. 2W@Wet. G): \u@ W2Hayl	Nearest Flag to Data P	olnt: Prr 71	
Investigator(s): Pippin Lockarl			
- 11 -		a a potential problem area? Yes No	
Landform: Hillstde/Seep Toe of Slope Depression	nal Riparian		
	Is the site	significantly disturbed? Yes No	
Landscape Position: Flat Undulating Sloping Con	vex Concave Annroxim	ate Slope (%): 6-2%	
s the state of the second second second second		ate crope (14).	
Are climatic/hydrologic conditions on the site typical for this	time of year? (165) NO		
Do Normal Circumstances exist on site? (Yes) No			
Do Horman Guodinadandos Cindi Guerra.			
Hydrology	and the second		
Supply cons. The supply of the	2.2	O do budlantara	(mile 2 required)
Primary Indicators (min 1 required; check all that app	oly)	Secondary Indicators Surface Soil Cracks	
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	Drainage Patterns (
Saturation (A3)	Aquatic Fauna (B13)	Moss Trim Lines (B	16)
Water Marks (B1)	Marl Deposits (B15)	Dry-Season Water	
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	
Drift Deposits (B3)	Oxidized Rhizospheres on Living I	Roots (C3) Saturation Visible of Stunted or Stressed	n Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D	
Sparsely Vegetated Concave Surface (B8)	Other (Explain In Remarks)	Microtopographic Re	
		Microtopographic Re	
Sparsely Vegetated Concave Surface (B8)		Microtopographic Re	
	Other (Explain in Remarks) Depth of Water (inches	Microtopographic Ri FAC-Neutral Test (D	
Sparsely Vegetated Concave Surface (B8) Field Observations	Other (Explain in Remarks) Depth of Water (inches Depth to Sat. Soil (inch	Microtopographic Re FAC-Neutral Test (D	
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No	Other (Explain in Remarks) Depth of Water (inches	Microtopographic Re FAC-Neutral Test (D	
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No	Other (Explain in Remarks) Depth of Water (inches Depth to Sat. Soil (inch	Microtopographic Re FAC-Neutral Test (D	
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Saturated Conditions? Yes No Ves	Other (Explain in Remarks) Depth of Water (inches Depth to Sat. Soil (inch	Microtopographic Re FAC-Neutral Test (D	
Field Observations Inundation Present? Yes No Ves N	Other (Explain in Remarks) Depth of Water (inches Depth to Water (i	Microtopographic Re FAC-Neutral Test (Disc): 716 11 716 11	
Field Observations Inundation Present? Yes No Ves N	Other (Explain in Remarks) Depth of Water (inches Depth to Sat. Soil (inch	Microtopographic Right FAC-Neutral Test (Discourse): 711011 Flow;	O5)
Field Observations Inundation Present? Saturated Conditions? Stream Characteristics	Other (Explain in Remarks) Depth of Water (inches Depth to Water (i	Microtopographic Re FAC-Neutral Test (Disc): 716 11 716 11	O5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No Ves No Ves Stream Characteristics Stream Characteristics Stream type: Morphology: Ves Stream Characteristics Perennial Bank Width Gentle	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Right FAC-Neutral Test (Discourse): 711011 Flow;	05)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrated FAC-Neutral Test (Date of FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrated FAC-Neutral Test (Date of FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrated FAC-Neutral Test (Date of FAC-Neutral Test (D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Reference (Control Test (Co	D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (Discount of the FAC-Neutral Test (Di	D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (Discount of the FAC-Neutral Test (Di	D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Re FAC-Neutral Test (D. FAC-Neutra	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrace FAC-Neutral Test (Discourse): Sit: Clay Overhanging Vegetation Vegetated Channel	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrace FAC-Neutral Test (Discourse): Sit: Clay Overhanging Vegetation Vegetated Channel	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrace FAC-Neutral Test (Discourse): Sit: Clay Overhanging Vegetation Vegetated Channel	D5)
Field Observations Inundation Present? Yes No Ves N	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrace FAC-Neutral Test (Discourse): Sit: Clay Overhanging Vegetation Vegetated Channel	D5)
Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Yes No Ves No	Depth of Water (inches Depth to Sat. Soil (inches Depth to Water (in	Microtopographic Regrace FAC-Neutral Test (Discourse): Sit: Clay Overhanging Vegetation Vegetated Channel	D5)

Project Number: 05030 Applicant: Horse Creek Wind Farm			\$a Da	mpling Date: 11/5/10 ata Point ID: 140 WEHUL FFF
Vegetation				
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Picea glanca	100	yes	fun	Total Number of Dominant
3.				Species Across All Strate: (B) Percent of Dominant Species
4.	-			That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet:
5				Total % Cover of: Multiply by: OBL species x 1 =
	N	= Total Cover		FACW species x2= FAC species x3=
Sapling/Shrub Stratum (Plot size: 15-foot radius)				FACU species X4= UPL species X5=
1. WA-		A-1-2		Column Totals; (A) (B
2.		-		Prevalence Index = B/A =
3.	-			
5		× ×		
		= Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)		4/0		Dominance Test >50%
1. <u>(are 5p.</u>		kyph)	faut	Prevalence index is ≤3.0 ¹ Morphological Adaptations ¹ (provide supporting data in remarks) Problematic Hydrophylic Vegetation ¹ (explain in remarks) Indicators of hydric soil and welland hydrology must be present,
3.				unless disturbed or problematic.
4	-		24	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5	*			Sapling/shrub - Woody plants less than 3 In. DBH and greater than 3.28 ft (1 m) tall.
7.	-		-	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.
8.				Remarks
9.	-			Dence white space
10		= Total Cover		Starl. No structural
Woody Vine Stratum (Plot size: 30-foot radius)				Steed. No structural shows or herb. layer
1.				
2.	-			
3.				
4.	4	¥ 100		
		= Total Cover		

			A STATE OF THE STA			/ 1
Project Number	: 05030				Sampling Date	e: 4/5/10
Applicant:	Horse Creek Wind Farm				Data Point ID	: we well top
Soil Map Unit:	Chauman	t silty	clay			
Soils		Profile Desc	cription: (Describe to the c	depth needed to document th	e Indicator or co	onfirm the absence of Indicators).
Depth	Matrix			Redux Features		14
(inches)	Color (moist)	%	Color (moist)	Frequency Type*	Loc³	Texture, Structure, Other
0-14	104R A/A	100				1 Clay Loan
		* * ; **			-	
				·	* *************************************	
					* (
		-		• ****		
² Type: C=Conce	ew, MA=Moderately Abund entration, D=Depletion, RM= ore Lining, M=Matrix	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		I Sand Grains		439
Hydric Soil In	dicators			Problematic Hydric Soli	Indicators	Restrictive Layer (if observed)
		Debasels	Dalam Curface (CS)			
Histosol (A1 Histic Epipe	don (A2)	Thin Da	ue Below Surface (S8) irk Surface (S9)	2 cm Muck (A10) Coast Prairie Redox		Type:
Black Histic Hydrogen S			Mucky Mineral (F1) Gleyed Matrix (F2)	5 cm Mucky Peat or l Dark Surface (S7)	Peat (S3)	Depth (inches):
Stratified La	yers (A5)	Deplete	d Matrix (F3)	Polyvalue Below Sur		
	elow Dark Surface (A11) Surface (A12)		Dark Surface (F6) d Dark Surface (F7)	Thin Dark Surface (S		
Sandy Muck	y Mineral (S1) ed Matrix (S4)		Depressions (F8)	Piedmont Floodplain Mesic Spodic (TA6)		
Sandy Redo	x (S5)			Red Parent Material		
Stripped Ma Dark Surfac				Very Shallow Dark S Other (Explain in rem		
	4 10	n - d budeeleen	-the researt unloss			
inolcators of nyo	drophytic vegetation and we	idand nydrology	must be present, unless	disturbed or problematic.		
Remarks	Non-man	il Soi				
*						
Wetland Deter	mination					
Hydric Soil Press Wetland Hydrolo	etation Present? Yes (Nont? Yes (Nont? Yes (Nont)) gy Present? Yes (Nont) Point Within a Wetland?		Does Any Part of this D	y to Off-site Wetlands? Ye Delineated Wetland/Stream E ally Isolated? Yes No		Flagged Boundary? Yes No N/A
	mapped in the NWI? Yea mapped state wetland?		If yes, indicate classific If yes, indicate welland	ation		

Environmental Design & Research 217 Montgomery Street, Suite 1000 Syracuse, New York 13202 Project Number: 05030 Applicant: Horse Creek Wind Farm	DATA FORM ROUTINE WETLAND DETERMIN Northcentral and Northeast Regional Supple Town: Clayton County: Jefferson State: New York		3
Data Point ID (I.e. 2W@Wet. G): \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	666 Nearest Flag to Data	a Point: Cs (s/6s-1	
Investigator(s): Landform: HillsIde/Seep Toe of Slope Depressions Landscape Position: Flat Undulating Sloping Convert Are climatic/hydrologic conditions on the site typical for this to Do Normal Circumstances exist on site? No Hydrology	Is the an Is the si ex Concave Approxi	area a potential problem area? Yes No site significantly disturbed? Yes No timate Slope (%): 0-290	
Primary Indicators (mln 1 required; check all that appl Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Atgal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations Inundation Present? Saturated Conditions? Yes No No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled : Thin Muck Surface (C7) Other (Explain in Remarks)	Stunted or Stressed Plants (I Soils (C6) Stunted or Stressed Plants (I Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Rellef (D4) FAC-Neutral Test (D5) hes): 6-8 ^{ff}	?) nagery (C9) O-1)
	Depth to Water (inch	hes):	******************
Stream Characteristics DA Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep	Bed Rock	Flow: Sand	_
Adjacent Community Type:	Gravel	Heavy	= ''
Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Pools Riffles & Pools	Overhanging Vegetation Vegetated Channel Other	-
r luger PFO/P	vea in forest ss wetlal.	drains east into	

Project Number: 05030 Applicant: Horse Creek Wind Farm			Sai	mpling Date: 11/10/10 ata Point ID: 1 w@ Wetland Grifer
Vegetation				
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. American elm	60	<u>yes</u>	facw	Total Number of Dominant
2. Acer Tubrum	15	ho	fac	Species Across All Strata:(B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet: Total % Cover of: Multiply by:
		Total Cover		OBL species
				FACU species x4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)	. 1/35 5	NO	\ IV	UPL species x 5 = Column Totals: (A)
1. Buck Hom		-	John .	Prevalence Index = B/A =
2 Anerica Elm	2576	yes	facw	
3. mug (18 crosel, 14. Harshelm)		yes	tac_	
4. Aver rubrum	<u> </u>	<u>4es</u>	fal	
5		= Total Cover		Hydrophylic Vegetation Indicators:
Herb Stratum (Plot size: 5-foot radius) 1. Sessifive fem 2 3 4.	-)			Repid Test for Hydrophytic Vegetation ↓ Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators 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
6				breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 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.
8.				Remarks
9.				therb kyer not substantial sue to time of season.
10		= Total Cove		substantial sue to
		- Total Cove		time of season.
Woody Vine Stratum (Plot size: 30-foot radius)				
1. N/A				
2		*	-	
3.	-			
4.			-	
5	-	= Total Cove	,	

<u> </u>									A Company of the last
Project Numbe	r: 05030		***			impling Date			
Applicant:	Horse Creek Wind Farm				D	ata Point ID	:_\ <u>\</u> \@'\	restal 666	
Soil Map Unit:	Chaunant si	Ity loon	clay						
Soils		Profile Descrip	tion: (Describe to the c	lepth needed to doc	ument the Ind	licator or con	firm the abso	ence of indicators).	
Depth	I Matrix			Redux Features			il —		
(inches)	Color (moist)	% []	Color (moist)	Frequency'	Type*	Loc	Te	xture, Structure, Othe	r
0-14	1 1048 2/1	100					11 (10	y loon	14
								1	
				*					

			200						
							H		
² Type: C=Cond	Few, MA≃Moderately Abund entration, D=Depletion, RM= Pore LinIng, M≃Matrix	Reduced Matrix,	CS=Covered or Coated	I Sand Grains					
Hydric Soll I	The second secon			Problematic Hy	dric Soil Ind	lcators'	Restrict	ive Layer (if obser	ved)
7000		6.1	D. I O C (O.)					•	
Histosol (A Histic Epip			Below Surface (S8) Surface (S9)	2 cm Muck (A10) e Redox (A16	3)	Type:		
Black Histi	c (A3)		icky Mineral (F1)	5 cm Mucky Dark Surface	Peat or Peat	(S3)	Depth	(Inches):	-
Stratified L		Loamy Gi	eyed Matrix (F2) Matrix (F3)	Polyvalue Be	elow Surface	(S8)			
	Selow Dark Surface (A11) Surface (A12)		rk Surface (F6) Dark Surface (F7)	Thin Dark St	urface (S9) nese Masses	(F12)			
Sandy Mud	ky Mineral (S1)		pressions (F8)	Piedmont Fl	oodplain Soils				
Sandy Gle	yed Matrix (S4) lox (S5)			Mesic Spodi Red Parent	ic (TA6) Material (TF2)			
Stripped M Dark Surfa	atrix (S6)			Very Shallov	v Dark Surfac in in remarks	e (TF12)			
	ydrophytic vegetation and we	etland hydrology m	ust be present, unless	disturbed or problem	natic.			-	
Remarks									
\$17									
Wetland Deta	ermination					4			80
Hydrophytic Ve		lo	Hydrologic Connectivit	y to Off-site Wetland	is? Yes I	No N/A			
Hydric Soil Pres Wetland Hydrol	sent? (Yes) No logy Present? (Yes) No g Point Within a Wetland? (Does Any Part of this I Is this Wetland Potenti		Stream Exten	d Past the F	lagged Boun	dary? (Yes) No N/A	
	mapped in the NWI? Y a mapped state wetland		If yes, indicate classific If yes, indicate welland						
								1000	

	Design & Research y Street, Suite 1000 York 13202	Northcentre	DATA FORM WETLAND DETERMIN al and Northeast Regional Supple	ment	274 North Goodman Street Rochester, New York 14607
Project Number	05030	Cou	wn: Clayton nty: Jefferson	Sampling Date:	Titiotio
Applicant:	Horse Creek Wind Farm		ate: New York	Community:	toiostex uplan
Data Point ID (I.e. 2W@Wet. G): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BAM (AR	Nearest Flag to Data	Point: (4/5/5")	
Landscape Pos	illside/Seep Toe of Slope (fittion: (Fitt) Undulating Slope drologic conditions on the site type sumstances exist on site?	cal for this time of year?	Is the sit	ea a potential problem e significantly disturbed nate Slope (%):	Co
Surface Water High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi	Table (A2) (A3) ts (B1) teposits (B2) tils (B3) t Crust (B4)	Wate Aqua Mari Hydro Oxidi Prese Rece Thin	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living ence of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) r (Explain in Remarks)	Roots (C3)	condary 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 (D-1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
				100 mm (100 mm)	
Field Observation Pres Inundation Pres Saturated Cond	sent? Yes	No No	Depth of Water (inched Depth to Sat. Soil (inched Depth to Water (in	ches): 716"	
Stream Chara	cteristics				
Stream type:	Morphology:	Stream Gradient:	Substrate:		Flow:
Perennial	Bank Width	Gentle	Bed Rock	Sand	
Intermittent	Stream Width	Moderate	Boulder	Silt	Gentle Moderate
	Water Depth	_Steep	Cobble	Clay	Heavy
Adjacent Comm	nunity Type:		510101		
3001					
Instream Cond	Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Po		Overhanging Vo	getation inel
Remarks	no orlandodi	othervel.			

Project Number: 05030 Applicant: Horse Creek Wind Farm			Sa Da	mpling Date: 11/10/10 ata Point ID: 140 West & birt
Vegetation Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species /
1. Anerica elm	7.0	466	facu	That Are OBL, FACW, or FAC:(A)
2. Acet Win	20	yes	pac	Total Number of Dominant Species Across All Strats:
3. Querus rubra	25	yes	face	Percent of Dominant Species (77)
4. Swar maple	15	NO	Jack	That Are OBL, FACW, or FAC: 8U (A/B)
5				Prevalence Index worksheet: Total % Cover of: Multiply by:
16 A 2 A		= Total Cover	1	OBL species x1 =
				FAC species X3 = FACU species X4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)		0		UPL species
1. Buckthorn	10	<u> </u>	MC	Prevalence Index = B/A =
2. Acer rubium		-yes	fac	
3. America elm	.12	- yès	farm	
4.				
5				
		= Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)		CONTRACTOR CONTRACTOR		Dominance Test >50% Prevalence Index is <3.01
1. <u></u>		h.		Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks)
2.			} - 24	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.				Definitions of Vegetation Strata:
4.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5		-		Sapling/shrub - Woody plants less than 3 in. DBH and greater
6.				than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
7.				and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
8.				Remarks
9.				
10.				
		= Total Cover		
1202				*
Woody Vine Stratum (Plot size: 30-foot radius)				
1				
2.		-		
3.				
4.			•	
5			¢ maring	
A.		= Total Cove	5	
*				

	and the same of th						and the second second
Project Number	er: 05030		* b			Sampling Date	ulvolvo
Applicant:	Horse Creek Wind Farm						: was wetter 666
						- X	
Soil Map Unit:	Chaumont	siltur	5000 c/91				
Soils		Profile Descrip	otion: (Describe to the o	(lepth needed to do	cument the	Indicator or cor	nfirm the absence of Indicators).
The state of the state of			o disconstitut	Redux Feature			
Depth (inches)	Matrix Color (moist)	% B	Color (moist)	Frequency'	Type	Loc	Texture, Structure, Other
0-164	I LOYO ALI						Soft loam
0. (0	101615			-			3/14 /007/
			C MARIANTE INC.				
-						E PARTICION	
			100 100				
				* ************************************		-	1
			War at a second				
	Few, MA=Moderately Abunda						
	centration, D=Depletion, RM=R Pore Lining, M=Matrix	educed Malnx,	CS=Covered or Coated	Sand Grains			
				15 TO 15	SVANSKE R		Tel
Hydric Soll I	ndicators			Problematic H	ydric Soll li	ndicators	Restrictive Layer (if observed)
	141		0.1.0.1.00		(440)		
Histosol (#			Below Surface (S8) Surface (S9)	2 cm Muck Coast Prair	(A10) le Redox (A	(16)	Type:
Black Hist	ic (A3)	Loamy Mu	cky Mineral (F1)	5 cm Muck	y Peat or Pe		Depth (inches):
	Sulfide (A4) ayers (A5)	Loamy Glo Depleted I	eyed Matrix (F2) Matrix (F3)	Dark Surfa	ce (S7) Below Surfa	ce (S8)	
Depleted 6	Below Dark Surface (A11)	Redox Da	rk Surface (F6)	Thin Dark S	Surface (S9)		
	c Surface (A12) cky Mineral (S1)		Dark Surface (F7) pressions (F8)		inese Massi Ioodplain S		REAL PROPERTY OF THE PROPERTY
Sandy Gle	yed Matrix (S4)		, , , , , , , , , , , , , , , , , , ,	Mesic Spoo	fic (TA6)	4.4	
Sandy Red Stripped M					t Material (T w Dark Sur		X
Dark Surfa					lain in rema		
3 Indicators of h	ydrophytic vegetation and wetle	and hydrology m	ust he present unless	disturbed or proble	matic		
moleculors of the	yorophyno vegetation and vett	and myorology m	dot do present, diness	distalled of proble			
Remarks	.1. 1. (4					
	Non - hyd	-11					
*							
3 7							
FACTOR CONTRACTOR							
Wetland Dete	The state of the s						
Hydrophytic Ve Hydric Soil Pres Welland Hydrol Is this Sampling	gelation Present? Yes (M) sent? Yes (No) logy Present? Yes (No) g Point Within a Wetland? Yes	. (Na)	Hydrologic Connectivity Does Any Part of this E Is this Wetland Potenti	elineated Wetland	/Stream Ext	end Past the F	lagged Boundary? Yes No W/A
	mapped in the NWI? Yes a mapped state wetland?		If yes, indicate classific If yes, indicate wetland				4

Environmental Design & Research			
0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	DATA	OPM	274 North Goodman Street
217 Montgomery Street, Suite 1000 Syracuse, New York 13202	DATA F		Rochester, New York 14607
Syracuse, New York 13202	Northcentral and Northeast		1
Project Number: 05030	Town: Clayton	Sampling Date	: 11/10/10
1 tojout Hollinger. 00000	County: Jeffersor		Ox
Applicant: Horse Creek Wind Farm	State: New Yo		(10
Data Point ID (i.e. 2W@Wet. G): \W@Wellul	HHH Nogreet	Flag to Data Point: HHH-	1 455
Data Point ID (i.e. 2W@Wet. G): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Nearcot		
Investigator(s):		Is the area a potential probler	n area? Yes No
Landform: Hillside/Seep Toe of Slope (Depression	al) Riparlan	100 CF 7500 C - 300 C - 37 C - 300 C - 30 C	
		Is the site significantly disturb	ed? Yes (No)
Landscape Position: Flat Undulating Sloping Conv	ex Concave	Approximate Slope (%):	7.78/2
Are climatic/hydrologic conditions on the site typical for this	time of year? (Yes) No	representate crops (15).	1200
	unite or your Color		
Do Normal Circumstances exist on site? (Yes No			
Hydrology			
Primary Indicators (min 1 required; check all that app	ly)	- 1	Secondary Indicators (min 2 required)
✓ Surface Water (A1)	Water-Stained Leav	voc (80)	Surface Soil Cracks (B6) /Drainage Patterns (B10)
High Water Table (A2) //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 O		Crayfish Burrows (C8)
Drift Deposits (B3)		eres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduct	tion in Tilled Soils (C6)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Re	emarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
	*		PAG-Nedulal Test (D3)
Field Observations		10-8	
Inundation Present? Yes V No		Water (Inches): UZ	
Saturated Conditions? Yes No	-	Water (inches):	
	Dopurto	The contract of the contract o	
Stream Characteristics U	Respond to the second second and the second		
Stream Characteristics Stream type: Morphology: Stream G	Gradient: Substr	ate:	Flow;
NA .	Gradient: Substr		
Stream type: Morphology: Stream C Perennial Bank Width Gentle	Bed Roc		No Flow
Stream type: Morphology: Stream C Perennial Bank Width Gentle	Bed Roc	skSand	No Flow
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate	Bed Roc Boulder	sk Sand Silt	No Flow
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate	Bed Roc Boulder Cobble	sk Sand Silt	No Flow Gentle Moderate
Stream type: Morphology: Stream C Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type:	Bed Roc Boulder Cobble	sk Sand Silt	No Flow Gentle Moderate
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions:	Bed Roc Boulder Cobble Gravel	Sand Sand Silt Clay	Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type:	Bed Roc Boulder Cobble	Sand Silt Clay Overhanging \ Vegetated Cha	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions:	Bed Roc Boulder Cobble Gravel	Sand Sand Silt Clay Overhanging \	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks	Bed Roc Boulder Cobble Gravel	Sand Silt Clay Overhanging \ Vegetated Cha	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy
Stream type: Morphology: Stream G Perennial Bank Width Gentle Intermittent Stream Width Moderate Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Bed Roc Boulder Cobble Gravel Deep Pools Riffles & Pools	Sand Silt Clay Overhanging \ Vegetated Other	No Flow Gentle Moderate Heavy

			· · ·	impling Date: [] (0 10
Project Number: 05030 Applicant: Horse Creek Wind Farm				ata Point ID: Iwe wether MHH
Vegetation				
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. American Clm	60	40	Jun	
2. Aper Pubrum	25	NO	fac	Total Number of Dominant Species Across Ali Strata: (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
5	-	R H		Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species x1 = FACW species x2 = FAC species x3 =
Sapiling/Shrub Stratum (Plot size: 15-foot radius)				FACU spedes x4 =
00.	Co			UPL species
		yes_	wor	Prevalence Index = B/A =
2. <u>Austlewood</u>		<u>No</u>	ful	
3. American elm		70	fred	
5		10 June 10 Jun		
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5-foot radius)				Dominance Test >50% Prevalence Index is ≤3.01
1				Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks)
2.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.			K	
4.				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
5				breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater
) () () ()		than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
7.				and woody plants less than 3.26 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
8.	-		- 1	Remarks
9.				No heb layer present.
10		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)				
1				
2.		S (5 	<u> </u>	
4.				
5				
		= Total Cover		
2				

Deale at Number	- AF020					Sampling Date	: Wollo
Project Number Applicant:	Horse Creek Wind Farm			•			IWO WEHEL HHIP
	7.		1				
Soil Map Unit:	Chaumont si	Ity 6	1 Clay				
Solls		Profile Descrip	tion: (Describe to the d	epth needed to do	cument the	indicator or cor	firm the absence of Indicators).
Depth	Matrix			Redux Feature]]
(inches)	Color (moist)	%	Color (molst)	Frequency'	Type ²	Loc	Texture, Structure, Other
0-16+1	10/2 41	60			_~		Chy Olen
						3	
		7	E E				
			****			· AMILIA	
			76		-	7	
	Few, MA=Moderately Abunda entration, D=Depletion, RM=I		S=Covered or Coated	Sand Grains			
	ore Lining, M=Matrix	TOUGOU MOUNT		2000-01-01-01-01-01-01-01-01-01-01-01-01-	erventions deuxe		
				ll .	Barana at A		
Hydric Soil Ir	ndicators			Problematic H	ydric Soli li	ndicators	Restrictive Layer (if observed)
Histosol (A	The state of the s		Below Surface (S8)	2 cm Muck		40)	Туре:
Histle Epipe Black Histle			Surface (S9) cky Mineral (F1)	Coast Prair 5 cm Muck	rie Redox (A y Peat or Pe		Depth (Inches):
Hydrogen S Stratified La		Loamy Gle Depleted N	yed Matrix (F2)	Dark Surfa		ce (S8)	
Depleted B	elow Dark Surface (A11)	Redox Dar	k Surface (F6)	Thin Dark 8	Surface (S9))	
	Surface (A12) ky Mineral (S1)		Dark Surface (F7) pressions (F8)	Iron-Manga	inese mass Ioodplain S		
Sandy Gley Sandy Red	red Matrix (S4)			Mesic Spoo		F2)	
Stripped Ma	atrix (S6)			Very Shallo	w Dark Sur	face (TF12)	
Dark Surfa	ce (S7)			Other (Expl	lain in rema	rks)	
³ Indicators of hy	drophytic vegetation and wet	land hydrology m	ust be present, unless		matic.		
Remarks	Mintary 1.	1/20	The second	×			
IWY	Hydric 5	V \ (1					
					1.00		
Wetland Dete	rmination		*				
Hydrophytic Veg	getation Present? Yes No	•	Hydrologic Connectivity	to Off-site Wetlan	ids? Yes	No N/A	The second of th
Hydric Soll Pres	sent? (Yes) No ogy Present? (Yes) No		Does Any Part of this D is this Wetland Potentia	elineated Wetland	I/Stream Ex		lagged Boundary? (Yes) No N/A
Is this Sampling	Point Within a Welland?	es No	o and Fronding Lotolius	ing reviewed 16	0		
	mapped in the NWI? Ye	s No	If yes, indicate classific	ation			
	a mapped state wetland?		If yes, Indicate wetland				
		Name of the last o					

Environmental Design & Research 217 Montgomery Street, Suite 1000 Syracuse, New York 13202	DATA FORM ROUTINE WETLAND DETERMINAT	274 North Goodman Street Rochester, New York 14607
Project Number: 05030	Northcentral and Northeast Regional Supplement Town: Clayton	Sampling Date: 11/10/16
Applicant: Horse Creek Wind Farm	County: Jefferson State: New York	- community: Forested upland
Data Point ID (i.e. 2W@Wet. G): \u@ WeHal	WHH Nearest Flag to Data Poln	it HRM-J
Investigator(s): Landform: Hillstde/Seep Toe of Slope Depress Landscape Position: Flat Undutating Sloping Co Are climatic/hydrologic conditions on the site typical for to Do Normal Circumstances exist on site? Yes No Hydrology	onvex Concave Approximate	potential problem area? Yes No gnificantly disturbed? Yes No Stope (%): D-210
Primary Indicators (min 1 required; check all that a	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced fron (C4) Recent fron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	Stunted or Stressed Plants (D-1)
Field Observations Inundation Present? Saturated Conditions? Yes No V	Depth of Water (Inches): Depth to Sat. Soil (Inches): Depth to Water (Inches):): \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Stream Characteristics Stream type: Morphology: Stream Perennial Bank Width Gentle Intermittent Stream Width Moder Water Depth Steep	rate Boulder	Flow; Sand
Adjacent Community Type:		
Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Pools Riffles & Pools	Overhanging Vegetation Vegetated Channel Other
Remarks Np hydrology	observel.	

Project Number: 05030 Applicant: Horse Creek Wind Farm	*			mpling Date: 11/10/10 ata Point ID: 140 12844 HHH
Vegetation	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size; 30-foot radius)	% Cover	Species?	Status	Number of Dominant Species
1. Ruerous rubra	20	465	facul	
2 Aper Whoum	10	Jes	fue	Total Number of Dominant Species Across All Strata: (B)
3. America beech	20	yes	facil	Percent of Dominant Species 43
4. Sur marole	20	yes	fain	That Are OBL, FACW, or FAC:(A/B)
5 American elm	16	100	Gucw	Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species x1 = FACW species x2 =
				FAC species X3 = FACU species X4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)			1	UPL species x5 = Column Totals; (A) (B)
1. Buck Hown		yes_	apr	Prevalence Index = B/A =
2. Aler rubium 3. Smerica ella	<u>\alpha 1 \big \tag{\alpha} \t</u>	405	for	
3. Sueria elly	_5_	No	facul	
4				
5		_		
	7	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5-foot radius)				Rapid Test for Hydrophylic Vegetation Dominance Test >50%
1. NA		*		Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks)
2.			*	Problematic Hydrophytic Vegetation (explain in remarks) 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
4.			•	breast height (DBH), regardless of height. Septing/shrub - Woody plants less than 3 in. DBH and greater
5	: . 	· · · · · · · · · · · · · · · · · · ·		than 3.28 ft (1 m) tall.
6.	. ——		<u> </u>	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7.	. ——			Woody vines - All woody vines greater than 3.28 ft in height.
8				Remarks
9.			*	
10	-			
	***	= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)	ASSET STATES OF STATES OF STATES		Discount of the second	
1. NA				
2.			****	
3.		*	A 112	
4.			-	
5		2.12.5		
	-	= Total Cover		
**	1000			

		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM				.1 \
Project Number		- 1	*			: ((10/10 : 1 0 (1.1) 101911
Applicant:	Horse Creek Wind Farm			D	ata Point ID	: I've well till
Soil Map Unit:	Chaumont	Silty	Loam cla	4		
Solls		Profile Descri	ption: (Describe to the o	lepth needed to document the Ind	icator or co	nfirm the absence of Indicators).
Depth	Matrix	1		Redux Features		JĒ
(inches)	Color (moist)	%	Color (moist)	Frequency' Type ²	Loc	Texture, Structure, Other
17-10	1 64243	847	,			1 Silt loan
V .V			7			
				-	- 1970 - 1730a	
			1977-00-			
					44	}
				* (** ********************************		
¹ Frequency: F	≝ ≖Few, MA=Moderately Abund	ا lant. C≕Common				
² Type: C=Cond	centration, D=Depletion, RM=		CS=Covered or Coated	I Sand Grains	-	
Location; PL=	Pore Lining, M=Matrix					
Control of the contro				Up		Restrictive Layer (if observed)
Hydric Soil I	ndicators			Problematic Hydric Soll Ind	cators	Restrictive Layer (if observed)
Histosol (/			Below Surface (S8)	2 cm Muck (A10) Coast Prairie Redox (A16		Туре:
Black Hist	pedon (A2) lc (A3)		Surface (S9) ucky Mineral (F1)	5 cm Mucky Peat or Peat	•	Depth (inches):
	Sulfide (A4)		eyed Matrix (F2)	Dark Surface (S7) Polyvalue Below Surface	(68)	
	Layers (A5) Below Dark Surface (A11)		Matrix (F3) ark Surface (F6)	Thin Dark Surface (S9)		·
	k Surface (A12) cky Mineral (S1)		Dark Surface (F7) epressions (F8)	Iron-Manganese Masses Pledmont Floodplain Soil		
	eyed Matrix (S4)	Nedox De	pressions (Fo)	Mesic Spodic (TA6)		
Sandy Red Stripped N				Red Parent Material (TF2 Very Shallow Dark Surface		
Dark Surfa				Other (Explain in remarks		
3 Indicators of h	ydrophytic vegetation and we	atland hydrology n	nuct ha procent unlace	disturbed or problematic		
	iyoropriytic vegetation and we	stianti nythology n	idat be present, diness	instance of protections.	erit selleren	
Remarks						
	Jon Walay	landor	Soil			5
^	JOHN WORDY	voganic				
	J					
2.				3		
A SECTION OF SECTION						
Wetland Det	avalantan		to the first contract to the first of the second to the se	Arms (* 1864) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994)	31,773	
						3
Hydric Soll Pre Wetland Hydro	egetation Present? Yes (No) sent? Yes (No) slogy Present? Yes (No) g Point Within a Wetland?	Yes (No)	Does Any Part of this E	y to Off-site Wetlands? Yes I Delineated Wetland/Stream Exten ally Isolated? Yes No N/A	d Past the F	Flagged Boundary? Yes No N/A
Is the wetland	d mapped in the NWI? Ye	s No	If yes, indicate classific	cation		
	d a mapped state wetland?		If yes, indicate wetland			

	Company of the same of the sam		
Environmental Design & Research	para ranta	074	North Goodman Street
217 Montgomery Street, Suite 1000	DATA FORM ROUTINE WETLAND DETERMIN		hester, New York 14607
Syracuse, New York 13202	Northcentral and Northeast Regional Suppli	NUMBER OF STREET	(
		Sampling Date: 11	30/10
Project Number: 05030	Town: Claylon		A 1
Applicant: Horse Creek Wind Farm	County: Jefferson State: New York		mealuw PSS
1. 0 1. 0 1	TT Warrent Florate Date	Point: III- Z	
Data Point ID (I.e. 2W@Wet, G): 1WQ We4.1 2	Nearest Flag to Data		
Investigator(s): Pippin Norton		rea a potential problem area?	Yes No
Landform: Hillside/Seep Toe of Slope Depression	nal Riparian Is the si	te significantly disturbed? Ye	AR.
Landscape Position: Flat Undulating Sloping Con-	ex Concave	mate Slope (%): D-2%	
Are climatic/hydrologic conditions on the site typical for this		2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Do Normal Circumstances exist on site? (Yes) No			P P P W
Hydrology			
			A STATE OF THE PARTY OF THE PAR
Primary Indicators (min 1 required; check all that app	ly)		ry Indicators (mln 2 required)
Surface Water (A1)	/		ice Soil Cracks (B6) lage Patterns (B10)
High Water Table (A2)	✓ Water-Stained Leaves (B9) Aquatic Fauna (B13)	Moss	Trim Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)		Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	g Roots (C3)Satu Stun	ted or Stressed Plants (D-1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Tilled :	Solls (C6) Geor	morphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shall	ow Aquitard (D3) blopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain In Remarks)		Neutral Test (D5)
		—	
Field Observations	Depth of Water (inch	nes): 3-4	
Inundation Present? Yes No	Depth to Sat. Soll (In		
Catorated Continuous 100 100	Depth to Water (Inch		
94 (WHO 30)			
Stream Characteristics			Flow:
Stream type: Morphology: Stream C	Gradient: Substrate:	Cand	No Flow
Perennial Bank Width Gentle	Bed Rock	Sand	Gentle
Intermittent Stream Width Moderate		Silt :	Moderate
Water DepthSteep	Cobble	Clay	Heavy
3	Gravel		, today
Adjacent Community Type:			
Instream Conditions:			
Obscurred Banks	Deep Pools	Overhanging Vegetation Vegetated Channel	on
Well Defined Banks	Riffles & Pools	Other	· · · · · · · · · · · · · · · · · · ·
Eroded/Undercut Bank			
Remarks 14 According 1945	ufful in active Pa	store that	drains
Wet mediado [17]		0.1	a livels
to the east a	snart to uplul	topest, a	X Conn
6ff Side			
off-side.			
65.f.SiAl.			

		-		
Project Number: 05030				mpling Date: (1 30 to
Applicant: Horse Creek Wind Farm			Da	ata Point ID: IWO Well III
Vegetation				
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
. <i>D/M</i>				Total Number of Dominant Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species X1 =
		= Total Cover	CONTRACTOR	FACW species X2 = FAC species X3 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)				IIDI enodes Y5=
Sulix Sp.	25	yes	facu	Column Totals: (A) Prevalence Index = B/A =
2. Si (ky dogwood)		yes	farm	FIGURE III AND
i.	-	= Total Cover		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 8-foot radius) 1. しゅいと とらんなら	40	ues	dol	Dominance Test >50% Prevalence Index is <3.0¹ Morphological Adaptations¹ (provide supporting data in remarks)
wetlal grasses	50	yes	facul	Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. <u>Scripus Cylernius</u>	_ 10 _	170	facul	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
5.	-		1	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
7.				and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3.				Remarks We Had III (ocadel
0.	• •			in active pastwe at heavily bowsed
		= Total Cover		In acrose friend
		= Total Cove		al beauth howsel
Service of the servic	Carried to the second of the s	CO. P. S. Green Cont. C. C. St. St. St. C. Co. S. Sterney, Company	AND AND THE PERSON OF THE PERS	1 200000119 01
Woody Vine Stratum (Plot size: 30-foot radius)				
1	-		-	
3.				
4.				

Designat Number	- AEA2A		2 =			Sampling Date	11/30/10
Project Number Applicant:	Horse Creek Wind Farm	4				Data Point ID	: I W Quetle ITI
	6 6						
Soll Map Unit:	- Gulling	Clay					
Soils		Profile Descrip	tion: (Describe to the d	epth needed to	document the	Indicator or co	nfirm the absence of Indicators).
Depth	Matrix	- LI		Redux Feat	ures		il in the second of the second
(inches)	, Color (moist)	%	Color (molst)	Frequency'	Type ^c	Loc	Texture, Structure, Other
0-10	104RA1	100	1098 5/6	C	P	M	Clay locan
		i ii				***	
						-	
			AND ASSESSED.		. — —		

		·	P. STRONG	-		-	
Frequency: F=1	Few, MA=Moderately Abund	ant, C=Common					
	entration, D=Depletion, RM= Fore Lining, M=Matrix	Reduced Matrix,	CS=Covered or Coated	Sand Grains			
	**			TO THE STATE OF			13
Hydric Soll In	dicators			Problematic	Hydric Soll	Indicators'	Restrictive Layer (if observed)
Histosol (A	n	Polyvalue	Below Surface (S8)	2 cm Mu	ick (A10)		Type:
Histic Epipe	edon (A2)	Thin Dark	Surface (S9)	Coast Pi	rairle Redox (Depth (inches):
Black Histic Hydrogen S			cky Mineral (F1) eyed Matrix (F2)		icky Peat or P rface (S7)	eat (S3)	Deptil (inches).
Stratified La	ayers (A5)	X Depleted I	Matrix (F3) rk Surface (F6)		e Below Surfa k Surface (SS		
	elow Dark Surface (A11) Surface (A12)	Depleted I	Dark Surface (F7)	Iron-Mar	nganese Mass	ses (F12)	
	ky Mineral (S1) ed Matrix (S4)	Redox De	pressions (F8)		nt Floodplain S podic (TA6)	Solls F19)	
Sandy Red	ox (S5)			Red Par	ent Material (
Stripped Ma Dark Surface					allow Dark Su xplain in rema		
3 adjactors of bu	drophytic vegetation and we	Hand hydrology m	uset ha pracent unlace	disturbed or pro	hlomatic		
	oropriyad vegetadorrand we	dand nydrology n	ust be present, unless	disturbed of pro	Assistance.		
Remarks							
	hydric	S0:15	100				
	myanic	101.17					
(3)	. 1						
*							
,						MATERIAL STATES OF THE STATE OF	
Wetland Dete	rmination						
Hydric Soil Pres Wetland Hydrold	etation Present? (res) Neent? (res) No orgy Precent? (res) No Point Within a Wetland?		Hydrologic Connectivity Does Any Part of this D is this Wetland Potentia	elineated Wetla	and/Stream Ex	dend Past the F	Flagged Boundary? Yes No N/A
	mapped in the NWI? Ye		If yes, indicate classific	The state of the s			3 *
is the wetland	a mapped state wetland?	Yes No.	If yes, indicate wetland	IU	-		
			*				

F. 1.	I Dealers & Descareb								
	I Design & Research ry Street, Suite 1000			DATA FORM			THE PARTY OF THE P	Goodman St	32.550(4)
Syracuse, New		RO	UTINE WE	TLAND DETERMIN	NATION		Rochester,	New York 1	4607
				d Northeast Regional Suppl		the Delay	11/30	10	
Project Number	r: <u>05030</u>			Clayton	Samp	ling Date:	11/20	10	
Applicant:	Horse Creek Wind Farm		0.70	Jefferson New York	Comm	nunity: _	Pasture	(Grest	edge.
	(I.e. 2W@Wet. G): \\\\(\O)	wellad III		Nearest Flag to Data	Point: 11	12-2			
Data Point ID ((i.e. 2VV@VVel. G). \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								
Landscape Pos	illsIde/Seep Toe of Slope	loping Convex C		Is the s	rea a potentia ite significant imate Slope (ly disturbe	area? Yes	(0)	
Are climatic/hyd	drologic conditions on the site	typical for this time of	fyear? (Ye	s) No					
Do Normal Circ	cumstances exist on site?	res No							
Hydrology			ESTANCE STANCE (TOTAL)			7.1509.450.55b			
Surface Walter High Water Saturation (Water Mark Sediment Dirift Depos Algal Mat o Iron Depos Inundation)	r Table (A2) (A3) ks (B1) Deposits (B2) sitis (B3) or Crust (B4)		Aquatic F Marl Dep Hydrogei Oxidized Presence Recent Ir	alned Leaves (B9) Fauna (B13) osils (B15) n Sulfide Odor (C1) Rhizospheres on Livin e of Reduced Iron (C4) on Reduction in Tilled kk Surface (C7) kplain in Remarks)			Surface Soll Drainage Pa Moss Trim I Dry-Season Crayfish Bu Saturation V Stunted or S Geomorphic Shallow Aoi	Cracks (B6) Atterns (B10) Lines (B16) Water Table rrows (C8) Visible on Aer Stressed Plar C Position (D2) Aphic Relief	e (C2) rial Imagery (C9) nls (D-1) 2)
		ne a contrata summa de la caracteria	e and the practicity of the latest a		G101465GT54GT	ing kasa sa			
Fleid Observa	flons					•		and the second s	
Inundation Pres	sent? Yes	No No		Depth of Water (incl Depth to Sat. Soil (in Depth to Water (incl	nches):	0 716" 716"	=		
eenu annumatuutatuta 1850.	Service Control of the Control of th								
Stream Chara	cteristics 1/A			South and the Control of the Control	E CESTAN STATES	and the second second	155 411 (NATE OF A TO A		
Stream type:	Morphology:	Stream Gradler	nt:	Substrate:				ow:	
Perennial	Bank Width	Gentle		Bed Rock		ı	-	Flow	
Intermittent	Stream Width	Moderate _		_Boulder				entle oderate	
	Water Depth	Steep		_Cobble Gravel	Clay			eavy	
Adjacent Com	munity Type:			Olavei					
Instream Cond	itions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	_;	Deep Pools Riffles & Poo	bls	Over Vege	rhanging V etated Cha er	egetation annel		
ACCOUNTS TO A CONTRACT TO A CO									
			I volve del						
Remarks									

Project Number: 05030 Applicant: Horse Creek Wind Farm				ampling Date: 1/30 to all Double 1.1.1
Vegetation				
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Querrus Alba	70	405	Saux	
2 Querces rubra	15	1.25	faul	Species Across All Strata: (B)
3. Acer rubrum	15	yes_	Pac	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet: Total % Cover of: Multiply by:
	8 8 3 18 18 18 3 3 3	= Total Cover		OBL species x1 = FACW species x2 =
				FACU species x3= FACU species x4=
Sapling/Shrub Stratum (Plot size: 15-foot radius)		NAMES AND ASSESSED.	191930000000000000000000000000000000000	UPL species x 5 = Column Totals: (A) (B
1WA				Prevalence Index = B/A =
2.				
3.				*
4				
5		= Total Cover	/ 	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation Dominance Test >50%
Herb Stratum (Plot size: 6-foot radius)	100		0 ,	Prevalence Index is <3.01
1. Jasture grasses.	_\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	409	faces	Problematic Hydrophytic Vegetation (explain in remarks)
2.				¹ Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
3,			- N	Definitions of Vegetation Strata:
4				Tree - Woody plants 3 In. (7.6 cm) or more in diameter at
5			(breast height (DBH), regardless of height, Sapling/shrub - Woody plants less than 3 in. DBH and greater
6.				than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
7.	•			and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft In height.
8.				Remarks
9.		21.75		ohis supling Point
10		= Total Cover	The state of the s	13 located in active
Woody Vine Stratum (Plot size: 30-foot radius)				Resture with heavy
1. N/A				hrowsing, Just to the
2		4		hrowsing, Just
3.				I SE is an upin
4.				I'M the sources will
5				and a partian of
		= Total Cover		comprise of a portion of the forest stud.
				the tolest stul.

	THE RESIDENCE OF THE PARTY OF T		to the little distribution of		NO-PER TOTAL			
Project Number	: 05030				1	Sampling Date	:	
Applicant:	Horse Creek Wind Farm					Data Point ID	:	
Call Man I laife	Carleia (-(-,						
Soil Map Unit:	· Chittier	-15y						24 24 4 5
Solls		Profile Descrip	otion: (Describe to the c	lepth needed to docu	ument the I	ndicator or cor	nfirm the absence	of Indicators).
Depth	Matrix			Redux Features			11	CONTRACTOR OF THE PARTY OF THE
(Inches)	Color (moist)	- %	Color (moist)	Frequency'	Type ²	Loc	Textur	e, Structure, Other
0-10+	104R 4/4						J. 57(+	loan
						*		

							1	
							_ <u>i</u> i	
1Frequency: F=F	i Few, MA=Moderately Abunda	l⊞ ant, C⊏Common					19 1	
² Type: C=Conce	ntration, D=Depletion, RM=F	Reduced Matrix,	CS=Covered or Coated	Sand Grains				
	ore Lining, M=Matrix							
				H	4-1- O-11 I-	dlastanad	Bootsletius	Layer (if observed)
Hydric Soil In	dicators			Problematic Hyd	aric Soil in	laicators	Restrictive	Layer (II observed)
Histosol (A1	5		Below Surface (S8)	2 cm Muck (40)	Туре:	
— Histic Epipe Black Histic			Surface (S9) icky Mineral (F1)	Coast Prairie 5 cm Mucky		90000000	Depth (incl	nes):
Hydrogen S	ulfide (A4)	Loamy Glo	eyed Matrix (F2)	Dark Surface		. 1001		
Stratified La	yers (A5) Blow Dark Surface (A11)		Matrix (F3) rk Surface (F6)	Polyvalue Be Thin Dark St				
Thick Dark	Surface (A12)	Depleted I	Dark Surface (F7)	Iron-Mangan	ese Masse	s (F12)		
	xy Mineral (S1) ed Matrix (S4)	Redox De	pressions (F8)	Pledmont Fid		olis F19)		
Sandy Redo	x (S5)			Red Parent	Material (TI			
Stripped Ma Dark Surfac				Very Shallow Other (Expla				
			- 4					
	drophytic vegetation and wet						JIL	
Remarks								
1100 -	#		8					
flyd	ric - Soils.							
1								
					The state of the state of			
Wetland Deter	rmination							
Hydrophytic Veg	etation Present? Yes (No	}	Hydrologic Connectivity	to Off-site Wetland	s? Yes	No (NIA)	Tarana di Barradan	o ver the text
Hydric Soil Prese	ent? Yes (No gy Present? Yes (No		Does Any Part of this Disthis Wetland Potenti				lagged Boundary	7 Tes No NA
is this Sampling	Point Within a Wetland? Y	es (No						
	mapped in the NWI? Yes		If yes, Indicate classific	ation				
Is the wetland	a mapped state wetland?	Yes No	If yes, indicate wetland					15

Environmental Design & Research 217 Montgomery Street, Suite 1000 Syracuse, New York 13202 Project Number: 05030 Applicant: Horse Creek Wind Farm Data Point ID (i.e. 2W@Wet. G): We Welful	DATA FORM ROUTINE WETLAND DETERMIN Northcentral and Northeast Regional Supple Town: Clayton County: Jefferson State: New York Nearest Flag to Data	NATION F ement Sampling Date: Community:()	274 North Goodman Street Rochester, New York 14607 il 30 10 et Madow P45
Investigator(s): Landform: Hillside/Seep Toe of Stope Depressional Landscape Position: Flat Undulating Sloping Convert Are climatic/hydrologic conditions on the site typical for this to Do Normal Circumstances exist on site? Yes No Hydrology	Riparian Is the si ex Concave Approxi	rea a potential problem area ite significantly disturbed?	
Primary Indicators (min1 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) Field Observations Inundation Present? Saturated Conditions? Yes V No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mart Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin, Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain In Remarks) Depth of Water (Inch Depth to Sat. Soil (In	S N N N N N N N N N	ndary Indicators (mln 2 required) furface Soil Cracks (B6) frainage Patterns (B10) floss Trim Lines (B16) floss Trim Lines (C2) floss Trim Lines
=	Depth to Water (Inch	ies): <u> </u>	
Stream Characteristics Stream type: Morphology: NA Stream Greater Great	Bed Rock	Sand Silt Clay	Flow: No Flow Gentle Moderate Heavy
Adjacent Community Type:			
Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Pools Riffles & Pools	Overhanging Veget Vegetated Channel Other	
Remarks wettal adjulent to culvere a off site	to roal hich passes c	flowing Idioi	uing West toal al

Project Number: 05030 Applicant: Horse Creek Wind Farm			Sar Da	mpling Date: (1/30/10 Ita Point ID: \(we \) we find \(\mathcal{V} \)
Vegetation		David - I	Indicates	Daminanca Taet warkshoof
Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Mossy Cup Dak (har Oak)	45	NO	fu	Total Number of Dominant &
2. American elm	25	No	MIM-	Species Across All Strata: (B)
3.	-		9 9	Percent of Dominant Species That Are OBL, FACW, or FAC:(0D(A/B)
5				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species
				FAC species X3 = FACU species X4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)	Edvinos and an annual	200-90-4107-02-02-0-0-0	/	UPL species x6 =
1. Salix sp.	25	- Yes	falw	Prevalence Index = B/A =
2		-		· · · · · · · · · · · · · · · · · · ·
3				
4.				
5	-			/
		= Total Cover		Hydrophytic Vegetation Indicators: VRapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)			۸۱.	Dominance Test >50% Prevalence Index is ≤3.01
1. Typha latifolia	76	405	900	Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks)
2. Juneus effusus	30	yes_	000	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. weflan grasses	25	yes	form	Definitions of Vegetation Strata:
4. Scirpes Cypernius	75	:No	facw	Tree - Woody plants 3 in, (7.6 cm) or more in diameter at breast heloht (DBH), regardless of helpht.
5 Scirpus atrovisus	lo	<u> </u>	9%	Sapling/shrub - Woody plants less than 3 in. DBH and greater then 3.26 ft (1 m) tell.
6.	-		7:	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.
		7	-	Romania
9.				ALDIOX. a harf dozen of
10.				styling flees within
		= Total Cover		Approx. a hars dozen of studing trees within this down pro wetlal.
Woody Vine Stratum (Plot size: 30-foot radius)				would not consider it
1. NA	()			a prestel wetful.
3.				Located in active pasture.
4.				Heavily browsed.
5		*/, */ */ */ */ */ */ */ */ */ */ */ */ */		
		= Total Cover		

						Sampling Data	: 11/30/1	v
Project Number	Horse Creek Wind Farm	}					I WOW W	
Applicant:	Hotse Creek Willo Fallit					7	1000	
Soil Map Unit:	Chaument	silty cla	· V		10			
Soils		Profile Descri	ption: (Describe to the d	epth needed to	document the	Indicator or cor	firm the absence o	of Indicators).
Market Control	Matrix			Redux Featu			H	
Depth (inches)	Color (moist)	%	Color (moist)	Frequency'	Type ²	Loc	Texture,	Structure, Other
0-1.11	1048 411		10 YR 5/10	C	D	M	1 Clay	loan
- 10-i								•
		-						
						X		
				-	-	-		
		-						
¹Frequency: F≍F	ਭ Few, MA≃Moderately Abund	lant, C=Common						
	entration, D=Depletion, RM= fore Lining, M=Matrix	Reduced Matrix,	CS=Covered or Coated	Sand Grains				
Location: FL=F				11			7	
Hydric Soil In	dicators			Problematic	Hydric Soli I	ndicators	Restrictive L	ayer (if observed)
		Debarohre	Below Surface (S8)	2 cm Mu	ck (A10)		Type:	
Histosol (A1		Thin Dark	Surface (S9)	Coast Pr	rairie Redox (/			41.
Black Histic Hydrogen S			ucky Mineral (F1) leyed Matrix (F2)		cky Peat or Perface (S7)	eat (S3)	Depth (inche	es):
Stratified La	ayers (A5)	∠ Depleted	Matrix (F3)	Polyvalu	e Below Surfa			
	elow Dark Surface (A11) Surface (A12)		ark Surface (F6) Dark Surface (F7)		k Surface (S9 iganese Mass			
Sandy Mucl	ky Mineral (S1)		epressions (F8)		nt Floodplain S podic (TA6)	Solls F19)		
Sandy Gley Sandy Redo	ed Matrix (S4) ox (S5)			Red Pare	ent Material (1			
Stripped Ma Dark Surfac					allow Dark Sur xplain in rema			
	S 6		SID G &			-		
³ Indicators of hy	drophytic vegetation and w	etland hydrology r	nust be present, unless	disturbed or pro	blematic.		11	
Remarks	and the second that the second he will be set to be a second or second or second or second or second of the second	and the state of t						
rtomarko	leganz	Soils						
	uganc	100()						
11.	1							
**								
к								
					<u> </u>			
Wetland Dete	rmination							
Hydrophylic Veg		No	Hydrologic Connectivity	y to Off-site Wet	lands? Yes	No N/A	1 2	~ · · · · · · · · · · · · · · · · · · ·
Hydric Soil Pres	ent? As No ogy Present? As No		Does Any Part of this I Is this Wetland Potenti	Delineated Wetla	and/Stream Ex	dend Past the F /A	Flagged Boundary?	Yes No N/A
Is this Sampling		Yes No	to and Frederica i otoliu	any roomiour		554F.		
	mapped in the NWI? Y	0	If yes, indicate classific	ation				
	a mapped state wetland		If yes, indicate wetland				* F	
		9						

Environmental Design & Research 217 Montgomery Street, Suite 1000 Syracuse, New York 13202 Project Number: 05030 Applicant: Horse Creek Wind Farm Data Point ID (i.e. 2W@Wet. G): U. A. WEHA. Investigator(s): (Copin Abrion		
Landform: Hillside/Seep Too of Slope Depression Landscape Position: Flat Jindulating Sloping Contact Are climatic/hydrologic conditions on the site typical for the Do Normal Circumstances exist on site? Yes No	onal Riparlan Is the site significance Approximate	potential problem area? Yes No gnificantly disturbed? Yes No e Slope (%): ()-2%
Primary indicators (min 1 required; check all that ap 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) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	Stunted or Stressed Plants (D-1)
Field Observations Inundation Present? Saturated Conditions? Yes No	Depth of Water (inches): Depth to Sat. Soil (inches): Depth to Water (inches):	s):
Stream Characteristics Stream type: Morphology: Stream Perennial Bank Width Gentle Intermittent Stream Width Modern Water Depth Steep		Sand
Adjacent Community Type:		
Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Pools Riffles & Pools	Overhanging Vegetation Vegetated Channel Other
Remarks No hydrology ob:	servol,	

Project Number: 05030 Applicant: Horse Creek Wind Farm		v .		mpling Date: 11/30/10 ata Point ID: 140 CRHUL 111
Vegetation Tree Stratum (Plot size: 30-foot radius) 1. NA	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		= Total Cover		Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: OBL species FACW species FAC species TAC species TOTAL SPECIES TAC SPECIES TOTAL SPECIE
Sapling/Shrub Stratum (Plot size: 15-foot radius) 1.				FACU species
Herb Stratum (Plot size: 5-foot radius) 1. fastwe grasses 2.		= Total Cover	Gun	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic VegetationDominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adeptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata:
4			al al	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants tess than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants tess than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
9		= Total Cover		Heavily browsed pastwe grusses. Difficult to identify due to Pastwe condition.
1.			2	Pasture condition.
*		= Total Cover		4. A. B.

Project Number:	05030					Sampling Date	e: 11/30/0
NEAD-SECTION AND AND ADDRESS.	Horse Creek Wind Farm	430	T			Data Point ID	(1) (1)
0.114	11 . 1 -	./(_1					
Soll Map Unit:	Chaumont S	Hycle	7				
Soils		Profile Descript	tion: (Describe to the c	epth needed to do	cument the	Indicator or cor	nfirm the absence of Indicators).
Depth	Matrix			Redux Feature			
(inches)	Color (molst)	<u> % </u>	Color (moist)	Frequency'	Type ²	Loc	Texture, Structure, Other
0-16+	104244	<u> </u> _					1 Silt loam
	V I						200
					-		
						•	
				* * · · · · · · · · · · · · · · · · · ·			
	way two was to a	}}		·			
				-			
1Frequency: F=Fe	ew, MA=Moderately Abunda	ant, C=Common					tal .
	ntration, D=Depletion, RM=	Reduced Matrix, C	S=Covered or Coated	Sand Grains			
Location; PL=Po	ore Lining, M=Matrix				446 (S) ES		
Hydric Soil Ind	lleefore	(4)		Problematic H	ludric Sali ir	ndicators ³	Restrictive Layer (if observed
Tiyane Son inc	illators					IMIORIOIO	Troduiouio Eujoi (II o o o o o o o o o o o o o o o o o o
Histosol (A1) Histic Epiped			Below Surface (S8) Surface (S9)	2 cm Muck		16)	Type:
Black Histic ((A3)	Loamy Muc	cky Mineral (F1)	Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Dark Surface (S7) Polyvalue Below Surface (S8)			Depth (Inches):
Hydrogen Su Stratified Lay		Loamy Gle Depleted M	yed Matrix (F2)				
Depleted Bel	low Dark Surface (A11)	Redox Dari	k Surface (F6)	Thin Dark	Surface (S9))	
Thick Dark S	Surface (A12) y Mineral (S1)		Park Surface (F7) Pressions (F8)		anese Masse Floodplain S		
Sandy Gleye	d Matrix (S4)		receione (r cy	Mesic Spo	dic (TA6)		
Sandy Redox Stripped Mat					it Material (T ow Dark Suri		
Dark Surface					olain in remai		
3Indicators of hyd	rophytic vegetation and we	land hydrology mi	ist he present unless	 disturbed or proble	ematic.		
Remarks							
N	on hydric	· .					
							*
* 1							
					,		
100							
× 2× 1							
Wetland Deter	mination						
Hydrophytic Vege	tation Present? Yes (N	4 6	Hydrologic Connectivity	to Off-site Wetlan	nds? Yes	No NIA	
Hydric Soll Prese	nt? Yes No gy Present? Yes No		Does Any Part of this D	elineated Wetland	d/Stream Ext	lend Past the F	Flagged Boundary? Yes No N/A
Is this Sampling F	py Present? Yes (No) Point Within a Wetland? Y	es No	s this Wetland Potentia	any isolated? Ye	S NO NI		
			tuan ladiacte decide	offen			
Is the wetland n	napped in the NWI? Ye mapped state wetland?	Yes No.	f yes, indicate classific f yes, indicate wetland				
		7					*

Environmental Design & Research			
217 Montgomery Street, Suite 1000	DATA FORM	274 North Goodman Street	
Syracuse, New York 13202	ROUTINE WETLAND DETERMINA	TION Rochester, New York 14607	1
	Northcentral and Northeast Regional Supplement		- 1
Project Number: 05030	Town: Clayton	Sampling Date: 11 30 10	
3 03 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	County: Jefferson		- 1
4 . U	State: New York	- Community: West Meadow 1855	
Applicant: Horse Creek Wind Farm	State. New York	_ Community. Will be the control of	
Data Point ID (i.e. 2W@Wet. G): \ w@ Wet/all	VVV	LVV-5	1
Data Point ID (i.e. 2W@Wet. G): \ W (G) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V_V-\ Nearest Flag to Data Po	uc Dele 1	22.5
Investigator(s): lipin winton			20
Investigator(s):	Is the area	a potential problem area? Yes No	
Landform: Hillside/Seep Toe of Slope Depression			
Candionii: ministaciocop ros or oropo Zapreson	Is the site s	Ignificantly disturbed? Yes No	
Landscape Position: Flat Undulating Sloping Con		701	
	Approxima	e Slope (%): 0-2/6	
Are climatic/hydrologic conditions on the site typical for this	10.1		1
Are cilitationly deologic containers on the site typical for the	Tambo de Journ		
Do Normal Circumstances exist on site? Xes No			
SO NOTHER SHOULD BE AND SHOULD			
Hydrology			
Tryarology			
<u> </u>			
Primary Indicators (mln 1 required; check all that app	nlv)	Secondary Indicators (mln 2 req	(uired)
✓ Surface Water (A1)	,	Surface Soil Cracks (B6)	
High Water Table (A2)	Water-Stained Leaves (B9)	Drainage Patterns (B10)	1
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) obs (C3) Saturation Visible on Aerial Image	anz (C9)
Drift Deposits (B3)	Oxidized Rhizospheres on Living Re Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D-1)	314 (00)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Agultard (D3)	
Sparsely Vegetated Concave Surface (B8)			
	Omer (Exolain in Remarks)	Microtopographic Relief (D4)	1
— obereal) regulate contents arrive ()	Other (Explain In Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)	
	Other (explain in Remarks)		en e
	Other (explain in Remarks)		
Fleid Observations /		FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No	Depth of Water (inches)	FAC-Neutral Test (D5)	
Field Observations /	Depth of Water (inches) Depth to Sat. Soil (Inche	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No	Depth of Water (inches)	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No	Depth of Water (inches) Depth to Sat. Soil (Inche	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Saturated Conditions? Yes No	Depth of Water (inches) Depth to Sat. Soil (Inche	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No	Depth of Water (inches) Depth to Sat. Soil (Inche	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No No No Stream Characteristics	Depth of Water (inches) Depth to Sat. Soil (Inche	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No No No Stream Characteristics Stream type: Morphology:	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Substrate:	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) State of the Sat. Soil (Inches) Substrate: Bed Rock		
Field Observations Inundation Present? Yes No No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder	FAC-Neutral Test (D5) s):	
Field Observations Inundation Present? Yes No No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder Cobble	FAC-Neutral Test (D5) 1-7	
Field Observations Inundation Present? Yes No No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder	FAC-Neutral Test (D5) s):	
Field Observations Inundation Present? Yes No No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder Cobble	FAC-Neutral Test (D5) 1-7	
Field Observations Inundation Present? Yes No	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder Cobble	FAC-Neutral Test (D5) 1-7	
Fleid Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions:	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Substrate: Bed Rock Boulder Cobble Gravel	FAC-Neutral Test (D5) 1-72	
Field Observations Inundation Present? Yes No	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder Cobble Gravel Deep Pools	FAC-Neutral Test (D5) I - 7 Sand Flow: No Flow Silt Gentle Clay Moderate Heavy Overhanging Vegetation	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Substrate: Bed Rock Boulder Cobble Gravel	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder Cobble Gravel Deep Pools	FAC-Neutral Test (D5) I - 7 Sand Flow: No Flow Silt Gentle Clay Moderate Heavy Overhanging Vegetation	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Sradient: Bed Rock Boulder Cobble Gravel Deep Pools	FAC-Neutral Test (D5)	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Saturated Conditions? Stream Characteristics Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	
Field Observations Inundation Present? Yes No No Saturated Conditions? Yes No No Stream Characteristics Stream type: Morphology: Stream type: Morphology: Perennial Bank Width Gentle Intermittent Stream Width Moderat Water Depth Steep Adjacent Community Type: Instream Conditions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Depth of Water (inches) Depth to Sat. Soil (Inche Depth to Water (inches) Gradient: Bed Rock Boulder Cobble Gravel Deep Pools Riffles & Pools	FAC-Neutral Test (D5) si:	

THE RESERVE AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		4		- Marie and American Company of the
oject Number: 05030			Sa	impling Date: 11/30/10
oplicant: Horse Creek Wind Farm	-		Da	ata Point ID: \w@ welled kKK
Vegetation				
V II V	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
Tree Stratum (Plot size: 30-foot radius)	% Cover	Specles?	Status	That Are OBL, FACW, or FAC:(A)
NA				Total Number of Dominant
				Species Across All Strata:
	TY TO THE TOTAL TO THE TANK TH			Percent of Dominant Species
(6)				That Are OBL, FACW, or FAC: (A/B)
	-			Prevalence Index worksheet:
and the same of th			-	Total % Cover of: Multiply by: OBL species x1=
		= Total Cover		FACW species x2=
				FAC species X3 = FACU species X4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)	27-24-20-20-20-20-20-20-20-20-20-20-20-20-20-	SWIDERELD CERTIFICATI	٨	UPL species x 5 =
Salix so.	20	Lies	town	Column Totals: (A)
		-10	10.00	Prevalence Index = B/A =
	* ******			
		Vest 1 See		
		= Total Cover		Hydrophytic Vegetation Indicators: Repid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)		1000 000 TO 1000 TO 1000 000 000 000 000 000 000 000 000 0	ARTHUR STREET,	Dominance Test >50%
wetlal Grasses	30	425	Solv	Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks)
	0		11	Problematic Hydrophytic Vegetation ¹ (explain in remarks) Indicators of hydric soil and welland hydrology must be present,
Juneus Effusus		- yes	100	Indicators of hydro soil and welland hydrology must be present, unless disturbed or problematic.
Scirpus Cypernius	10	_NO_	faces	Definitions of Vegetation Strata:
			(2000)	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
W	-			breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in, DBH and greater
	-			than 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.
~ T - 2				Remarks
·			Sec	
134				- W.
		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)				***************************************
Troody Ville Officiality (1 lot office on 1001 season)				
VA				
				A Company of the Comp
			3. The state of th	
		-	2 <u>11</u>	
		= Total Cover		

	•						1 30/10
Project Number:	05030 Horse Creek Wind Farm					Sampling Date Data Point ID	1 0
Applicant:	Horse Greek Wind Farm		7			Data Fulli ID	· TWO WE FIX FEE
Soil Map Unit:	W. Lepin	r silty.	clay loar				
Soils		Profile Descri	otion: (Describe to the c	lenth needed to d	document the	Indicator or cor	nfirm the absence of indicators).
		Figure Descri	puon. (Describe to tile c	0.00			y ·
Depth (inches)	Matrix Color (molst)	%	Color (moist)	Redux Featu Frequency	res Type ²	Loc	Texture, Structure, Other
- 33	1042 A/1		1040 5/6		0	M	(1. loan
1-164	1016.11		101/	-//.			1 (14)
					-		
						4	
15	848-84-41-6- About	dent CaCamman					
² Type: C=Concer	ew, MA=Moderately Abur ntration, D=Depletion, RM	l=Reduced Matrix,	CS=Covered or Coated	Sand Grains			
	ore Lining, M=Matrix						
				H			
Hydric Soil Inc	dicators			Problematic	Hydric Soll	indicators	Restrictive Layer (if observed)
Histosol (A1)			Below Surface (S8)	2 cm Mu	ck (A10) airle Redox (A	A16)	Type:
Histic Epiped Black Histic			c Surface (S9) ucky Mineral (F1)		cky Peat or P		Depth (inches):
Hydrogen Su Stratified Lay		Loamy G	leyed Matrix (F2)		face (S7) e Below Surfa	sce (S8)	The state of the s
	low Dark Surface (A11)	Redox Da	ark Surface (F6)	Thin Dark	k Surface (SS	9)	
Character Man and the comment of the	Surface (A12) y Mineral (S1)		Dark Surface (F7) epressions (F8)		ganese Mass t Floodplain S		
Sandy Gleye	ed Matrix (S4)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Mesic Sp	odic (TA6)		
Sandy Redo: Stripped Mal					ent Material (illow Dark Su		
Dark Surface	e (S7)			Other (Ex	xplain in rema	arks)	
3Indicators of hyd	rophytic vegetation and v	retland hydrology n	nust be present, unless	disturbed or prof	blematic.		
Remarks	11 /	.1.					
21	Hydrit S	oils.	20				
138							
							Y
er dan Sister Halland							
							N. T. S. PORTO OF BRAIN STATE STATE OF
Wetland Deter	mination						
Hydrophytic Vege	etation Present? (Yes)	No	Hydrologic Connectivit	y to Off-site Well	lands? Yes	(No) N/A	Flagged Boundary? Yes (No) N/A
Wetland Hydrolo	gy Present? Xes) No		Is this Wetland Potenti	ally Isolated?	Yes No N	I/A	123301 20211011). 120 (E) 1111
Is this Sampling I	Point Within a Wetland?	(Yes) No					
is the wetland r	mapped in the NWI?	res No	If yes, indicate classific				
Is the wetland a	a mapped state wetland	1? Yes No	If yes, indicate wetland	ID			
				****			8

		·	
Environmental Design & Research	DATA CODM	274	North Goodman Street
217 Montgomery Street, Suite 1000	DATA FORM ROUTINE WETLAND DETERMINA		ester, New York 14607
Syracuse, New York 13202	Northcentral and Northeast Regional Supplem	nervici i	
Dralact Number: 05020	Town: Clayton	Sampling Date: ()	30/10
Project Number: 05030	County: Jefferson		
Applicant: Horse Creek Wind Farm	State: New York	Community: Pasta	NC - ACTIVE
Data Point ID (I.e. 2W@Wet. G): 1 w@ Weshill	Y-VY Nearest Flag to Data P	olnt: KICK-5	
0			September 19, Control of the September 19, Co
Investigator(s): Rippin Horton		a a potential problem area?	Yes No
Landform: Hillside/Seep Toe of Slope Depressi	is the site	significantly disturbed? Yes	NO
Landscape Position Flat Undulating Sloping Co	Approxim	ale Slope (%): 0-2	10
Are climatic/hydrologic conditions on the site typical for the	als time of year? Yes No		
Do Normal Circumstances exist on site? Yes No			
Hydrology			
Series annual for the Control of the	to Transfer Security Section (Control of Section 2015) The North Control of Section (Control of Section 2015) The North Control of Section (Control of Section 2015) The North Control of Section (Control of Section 2015) The North Control of Section 2015 The North Control of Section 2015	Casanda	ry Indicators (mln 2 required)
Primary Indicators (min 1 required; check all that a	pply)	Surfa	ce Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	Drain	age Patterns (B10)
Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)	Moss	Trim Lines (B16) eason Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayf	ish Burrows (C8)
Drift Deposits (B3)	Oxidized Rhizospheres on Living		ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D-1)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Sc	- C. 7. 10 10 10 10 10 10 10 10 10 10 10 10 10	norphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallo	ow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain In Remarks)	Micro	topographic Relief (D4) Neutral Test (D5)
		FAC-	Redual Test (DO)
Field Observations	Depth of Water (Inches	el· ·	
Inundation Present? Yes No Saturated Conditions? Yes No		nes):	
Saturated Conditions 100 100	Depth to Water (inches	1	
01-01-01-01-0			200000000000000000000000000000000000000
Stream Characteristics	n Gradient: Substrate:		Flow;
Ottomitation interpretation		Sand	No Flow
	The state of the s	Slit	Gentle
Intermittent	Cobble	Clay	Moderate
vvater Deptitotoep	Gravel		Heavy
Adjacent Community Type:			
Instream Conditions: Obscurred Banks	Deep Pools	Overhanging Vegetation	n
Well Defined Banks	Riffles & Pools	Vegetated Channel	
Eroded/Undercut Bank	· ·	Other	
<u> </u>	^		
Remarks 129 la donlocu dose	er Red.		
Remarks No by drology obse			
2			

	A. T. H. LOHN			
Project Number: 05030			Sa	mpling Date: (1/38/10
Applicant: Horse Creek Wind Farm	_		D	ata Point ID: 140 Welled KKK
Vegetation	-			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. N/A	sant at the sant a	9-2-We		Inachie Cal, FACW, OFFAC.
	J			Total Number of Dominant Species Across All Strata: (B)
2,		-		
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
4				
E				Prevalence Index worksheet: Total % Cover of: Multiply by:
5	_			OBL species x1=
		= Total Cover		FACW species x2= FAC species x3=
Sapling/Shrub Stratum (Plot size: 15-foot radius)				FACU species
1,N/A	_			
2.				Prevalence Index = B/A =
	E.	· -		
3				
4.				- W
5				
				D. J. J. M. V. della Lallada
		≈ Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 6-foot radius)		and statement the political Control School & C		Dominance Test >50%
1. Visture grasses	100	4.05	face	Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (provide supporting data in remarks)
		1		Problematic Hydrophytic Vegetation¹ (explain in remarks) Indicators of hydric soil and wetland hydrology must be present,
2.	_			unless disturbed or problematic.
3.				Definitions of Vegetation Strata:
4.				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 3.28 ft (1 m) tall.
3.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7.				Woody vines - All woody vines greater than 3.28 ft in height.
				Pamayla
8.		-		Remarks
9	- :			Lotive Pasture
10.				with browsel.
		= Total Cover		
		- Total Cover		GASSES.
Woody Vine Stratum (Plot size: 30-foot radius)	And the second s			
1 //				mable to according
1. <u>NA</u>	_	-		9 dentity.
2.				143-64-7
				Q. Comment of the com
3.			• • • • • •	3
4			-	α
6	(/=10	1 1		
		= Total Cover		e /
	(TOTAL GUVOL		

Project Number:	05030	311 2		Sampling Dat	te: [1]30 10
	Horse Creek Wind Farm				o: Two welful ICKK
Call Man Linite	Indian Lasti	[- 1	v - 1_		
Soil Map Unit:	- Wiffern S, Ity	clay loan			
Solls	Profile De	escription: (Describe to the c	lepth needed to document th	e Indicator or co	onfirm the absence of Indicators).
Depth	Matrix		Redux Features		
(inches)	Color (moist) %	Color (moist)	Frequency' Type'	Loc	Texture, Structure, Other
0-16+	107044				Sitt 100m
				* ****	
			·		
	AND THE PROPERTY AND THE PROPERTY OF THE PROPE				
			20	- 11	action of the second of the se
¹Frequency: F=Fe	ew, MA=Moderately Abundant, C=Com	mon			S
² Type: C=Concen	ntration, D=Depletion, RM=Reduced Ma		J Sand Grains		
*Location: PL=Poi	re Lining, M=Matrix				
Hydric Soll Ind	Hantara.		Problematic Hydric Sol	I Indiantore ³	Restrictive Layer (if observed)
Hyaric Jon inu	Icators		Problematic nyunc soil	INDICATORS	Restrictive Layer (ii observed)
Histosol (A1) Histic Epiped		value Below Surface (S8)	2 cm Muck (A10) Coast Prairie Redox	(446)	Type:
Black Histic (Dark Surface (S9) ny Mucky Mineral (F1)	5 cm Mucky Peat or		Depth (inches):
Hydrogen Sul	iffide (A4) Loam	ny Gleyed Matrix (F2)	Dark Surface (S7)		
Stratified Lay		leted Matrix (F3) ox Dark Surface (F6)	Polyvalue Below Surface (S		
Thick Dark St	urface (A12) Deple	eted Dark Surface (F7)	Iron-Manganese Mas	sses (F12)	
Sandy Mucky Sandy Gleyed		ox Depressions (F8)	Piedmont Floodplain Mesic Spodic (TA6)	S0115 F 19)	
Sandy Redox	(S5)		Red Parent Material		
Stripped Matr Dark Surface			Very Shallow Dark Si Other (Explain in rem		
FILE CONTRACTOR		The second colors			
Indicators of nyor	rophytic vegetation and wetland hydrolo	ygy must be present, unless	disturbed or problematic.		
Remarks					
0 lz	on-hydric				
2	J. C. Jan.				
<u> </u>					
		<u> </u>			
Wetland Detern	nination				in the second
Hydrophytic Vegel	tation Present? Yes (No	Hydrologic Connectivity	y to Off-site Wetlands? Ye	s No NA	>
Hydric Soil Preser	nt? Yes (No) py Present? Yes (No)				Flagged Boundary? Yes No N/A
Is this Sampling P	Point Within a Wetland? Yes (No)	IS this yvenana notema	ally Isolated? Yes No	NIA	, f
	napped in the NWI? Yes No	If use Indicate classific	allan		
	mapped state wetland? Yes No		ation		
		V			

		*	The second secon
Environmental Design & Research			274 North Condman Street
217 Montgomery Street, Suite 1000	DATA FORM ROUTINE WETLAND DETERMIN	IATION	274 North Goodman Street Rochester, New York 14607
Syracuse, New York 13202	Northcentral and Northeast Regional Supple		Rochester, New York 14007
Project Number: 05030	Town: Claylon	Sampling Date:	11/30/10
Project Number: 05030	County: Jefferson		
Applicant: Horse Creek Wind Farm	State: New York		et mealow PSS
Data Point ID (i.e. 2W@Wet. G): しいのいいん	Nearest Flag to Data	Point: LU-1	L
Investigator(s): Pippin Nostan	Is the ar	rea a potential problem a	rea? Yes No
Landform: Hillside/Seep Toe of Slope Depression	nal Riparlan Is the si	te significantly disturbed	? Yes No
Landscape Position: Flat Undulating Sloping Com	vex Concave	male Slope (%):	2%
Are climatic/hydrologic conditions on the site typical for this	time of year? (res) No	V	
Do Normal Circumstances exist on site?			
Hydrology			
Primary Indicators (mln 1 required; check all that app Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	g Roots (C3)	condary 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 (D-1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain In Remarks)	Soils (C6)	Geomorphic Position (D2) Shallow Agultard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations Inundation Present? Yes No	Depth of Water (inche	es):	
Saturated Conditions? Yes No	Depth to Sat. Soil (Inc Depth to Water (Inch	ches):	
STRATE AND THE PROPERTY OF THE			
Stream Characteristics			2007 C
	Gradient: Substrate:		Flow;
Perennial Bank Width Gentle	Bed Rock	Sand	No Flow
Intermittent Stream Width Moderate		Silt	Gentle
Water Depth Steep	Cobble	Clay	Moderate
N	Gravel		Heavy
Adjacent Community Type:			
Instream Conditions:			
Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Pools Riffles & Pools	Overhanging Veg Vegetated Chann Other	
Remarks Similar to KK	K but flows	to SW	to road and
Culvert-			1,4

	•		Sor	mpling Date: 14 70 10
Project Number: 05030 Applicant: Horse Creek Wind Farm			Da	ita Point ID: June wettal W
Vegetation <u>Tree Stratum</u> (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant Species Across All Strata: (B)
3.	-			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
4.	•	-		Prevalence Index worksheet: Total % Cover of: Multiply by:
5		= Total Cover		OBL species x1 = FACW species x2 = FAC species x3 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)			C	FACU species
1. Salix sp.		<u>yes</u>	FULL	Prevalence Index = B/A =
3.				
4.				,
5		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 6-foot radius)			C. 1	
1. Sciepus Cyfericus 2. Juneus exensus	30	405	full	Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and wetland hydrology must be present,
2. Juneas extrasus	70	445	facul	unless disturbed or problematic.
3. wettal grasses 4 5 6	70	75	7,000	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sepling/shrub - Woody plants less than 3 in. DBH and greater than 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.
8.	*	. ——		Remarks
9.	-		-	
10.		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)	321202		and the second s	
1	-		-	
2				
4.				
5	-	= Total Cover		
	-	_ = TOTAL COVE		

Project Number:	05030					Samoling Date	e: 11 30 1t)
The state of the s	Horse Creek Wind Farm		AN AMARAMAN AND AND AND AND AND AND AND AND AND A			Data Point ID	: Instill	12
		. 1						
Soil Map Unit:	Wilpoint:	silty di	y 109M					
Soils		Profile Descrip	tion: (Describe to the d	epth needed to	document the	indicator or co	nfirm the absence	of Indicators).
Depth	Matrix] [Redux Featu	ıres			
(inches)	Color (moist)	%	Color (moist)	Frequency'	Type ²	Loc	Texture	e, Structure, Other
0-16+	1092 4/1		10425/6		D	M	Clay	lour
		·						
	A rank 11 shimore x		n, II					
		-		• 1-		-		
			Tree-composition					
	ew, MA=Moderately Abunda tration, D=Depletion, RM=		S=Covered or Coaled	Sand Grains				
	re Lining, M=Matrix	reduced matrix, c	O-COVERCE OF COLICE	Cura Cramo				
				11			il .	
Hydric Soil Ind	icators			Problematic	Hydric Soil	Indicators	Restrictive	Layer (if observed)
Histosol (A1)			Below Surface (S8)	2 cm Mu			Туре:	
Histic Epiped Black Histic (Surface (S9) cky Mineral (F1)		alrie Redox (cky Peat or P		Depth (inch	nes):
Hydrogen Sul	Ifide (A4)	Loamy Gle	yed Matrix (F2)	Dark Sur	face (S7)			
Stratified Layer Depleted Belo	ers (A5) ow Dark Surface (A11)	Depleted M Redox Dar	tatrix (F3) k Surface (F6)	Thin Dar	e Below Surfa k Surface (St	9)		
Thick Dark St			erk Surface (F7) ressions (F8)		ganese Mass It Floodplain S			
Sandy Gleyed		Kedox Det	ressions (Fo)	Mesic Sp	odlc (TA6)			581
Sandy Redox Stripped Matr					ent Material (allow Dark Su			
Dark Surface					xplain in rema			
3Indicators of hydr	ophytic vegetation and we	land hydrology mu	ist be present, unless	[]] disturbed or prof	blematic.			
Remarks	A. 1:	, ,						
	andar	ic s	0115.					
	λ.							
1. 1								
		-						
	*						Carlo Sean of Manager School of Seasons in Season	
Wetland Detern	nination							
Hydrophytic Veget Hydric Soil Presen Wetland Hydrolog	nt? Yes No		lydrologic Connectivity Does Any Part of this D s this Wetland Potentic	elineated Wetla	nd/Stream Ex	dend Past the F	Flagged Boundary	? (es) No N/A
Is this Sampling P	oint Within a Wetland?	es) No			Luci			
	apped in the NWI? Ye mapped state wetland?		f yes, Indicate classific f yes, Indicate wetland					
	E.L. Townson in a state of		CONTRACTOR CONTRACTOR OF THE C		Y.			

F. L			
Environmental Design & Research 217 Montgomery Street, Suite 1000	DATA FORM		274 North Goodman Street
Syracuse, New York 13202	ROUTINE WETLAND DETERM	NOITANII	Rochester, New York 14607
***************************************	Northcentral and Northeast Regional Sup	plement	11/21
Project Number: 05030	Town: Clayton	Sampling Date:	11/30/10
	County: Jefferson		a field / Active Pastive
Applicant: Horse Creek Wind Farm	State: New York	Community:	4. Tiela pente facilio
Data Point ID (I.e. 2W@Wet. G): \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Nearest Flag to Da	ta Point: LU-12	
Investigator(s): Pipan Norton		F)	
797	nal Riparlan	area a potential problem a	
	Is the	site significantly disturbed	, (1)
Landscape Position: Flat Undulating Sloping Con	Appro	eximate Slope (%):	-1%
Are climatic/hydrologic conditions on the site typical for this	time of year? Yes No		
Do Normal Circumstances exist on site? Yes No			
9			
Hydrology			
The state of the s	stu)	Se	condary Indicators (min 2 required)
Primary Indicators (min 1 required; check all that ap Surface Water (A1)	oly)	-	Surface Soil Cracks (B6)
High Water Table (A2)		e	Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Cravfish Burrows (C8)
Drift Deposits (B3)	Oxidized Rhizospheres on Liv	ing Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4 Recent Iron Reduction in Tille	d Soils (C6)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	-	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain In Remarks)		_ Microtopographic Relief (D4) _ FAC-Neutral Test (D5)
Field Observations			AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
Inundation Present? Yes No	Depth of Water (in	ches):	
Saturated Conditions? Yes No		(inches):	-
	Depth to Water (in	Gles).	
Stream Characteristics			
Obtain tipo:	Gradient: Substrate:	× × ×	Flow:
Perennial Bank Width Gentle		Sand	
Intermittent Stream Width Moderat		Silt	Gentle Moderate
Water DepthSteep	Cobble Gravel	Clay	Heavy
Adjacent Community Type:	Sidt of		
Instream Conditions:	Doon Peole	Overhanging Ve	gelation
Obscurred Banks Well Defined Banks	Deep Pools Riffles & Pools	Vegetated Chan	nel
Veil Delited Banks Eroded/Undercut Bank	7	Other	
Remarks ()	0		
Romarks No hydrology observ	ev.		

Project Number: 05030		1	Sal	mpling Date: (1/30/10 ata Point ID: \w@ Wetlul UL
Applicant: Horse Creek Wind Farm			Da	and Point ID; We we then US
Vegetation Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant Species Across All Strata: (B)
3	14 T			Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet:
5		= Total Cover		Total % Cover of: Multiply by: OBL species
Sapling/Shrub Stratum (Plot size: 15-foot radius) 1				FACU species
2				
5				The Control of the Co
Herb Stratum (Plot size: 5-foot radius) 1. Pufful grasses 2.	_\00	= Total Cover	facu	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic VegetationDominance Test >50%Prevalence Index is ≤3.0¹Morphological Adaptations¹ (provide supporting data in remarks)Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3				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 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7. 8.				Woody vines - All woody vines greater than 3.28 ft in height. Remarks
9				Lith browsed
Woody Vine Stratum (Plot size: 30-foot radius)		= Total Cover		væetatom.
1,\(\mu/\beta\) 2				identity.
3				- locality
5		= Total Cover		

				7	· · · · · · · · · · · · · · · · · · ·		
Project Number:	05030					Sampling Date	
. Scool medical control of the same	Horse Creek Wind Farm					Data Point ID	
			1				
Soll Map Unit:	Wilsoint.	silty cls	y 109m				
Solls		Profile Descrip	/ tion: (Describe to the o	fepth needed to do	ocument the I	ndicator or con	firm the absence of indicators).
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Redux Feature Frequency	es Type ²	Loc³	Texture, Structure, Other
10-11-F	1040 2/4		Color (moisi)				
101	10710914						Soft loan
							842
	***************************************		A THURSDAY AND	W ()-11			
			-	-	· · · · · · · · · · · · · · · · · · ·		
		- <u></u> }					<u> </u>
¹Frequency: F=Fe	ew, MA=Moderately Abund	lant. C=Common					181
² Type: C=Concen	tration, D=Depletion, RM=		S=Covered or Coated	Sand Grains			
3Location: PL=Po	re Lining, M=Matrix						
					-31		1
Hydric Soil Ind	licators			Problematic F	lydric Soil In	dicators'	Restrictive Layer (if observed)
Histosol (A1)			Below Surface (S8)	2 cm Mucl			Type:
Histic Epiped Black Histic (Surface (S9) cky Mineral (F1)		irle Redox (A ky Peat or Pe		Depth (inches):
Hydrogen Su			yed Matrix (F2)	Dark Surfa	The state of the s	at (03)	Deptit (mones):
Stratified Lay		Depleted N			Below Surfac		
Depleted Bell	ow Dark Surface (A11) urface (A12)		k Surface (F6) Park Surface (F7)		Surface (S9) anese Masse		
Sandy Mucky	Mineral (S1)		ressions (F8)	Pledmont	Floodplain So		
Sandy Gleyed Sandy Redox				Mesic Spo	idic (TA6) nt Material (TF	F2)	
Stripped Matr	ńx (S6)	.00		Very Shall	ow Dark Surf	ace (TF12)	
Dark Surface	(\$7)			- Other (Exp	olain in remar	ks)	
3Indicators of hydr	rophytic vegetation and we	etland hydrology mu	st be present, unless	disturbed or probl	ematic.		
Remarks							
111	on hydric	Soils.	92				
10							
	2*0						
						6	
			. A				
						5000025A05505	
W 1 . 15 .	The same of the sa		part of discount fields. The shares on a continue of the first to the			State	
Wetland Deterr		-					w.
Hydrophytic Vege	tation Present? Yes No.	(D)	lydrologic Connectivity	to Off-site Wetla	nds? Yes	No NIA	anned Doundard Ves No MA
Wetland Hydrolog	v Present? Yes No		s this Wetland Potenti				agged Boundary? Yes No N/A
Is this Sampling P	oint Within a Wetland?		TO THE RESIDENCE OF THE PROPERTY OF THE PROPER		>	ha.	
is the wetland m	apped in the NWI? Ye	s No	yes, Indicate classific	ation			
	mapped state wetland?		yes, indicate wetland				& St
							, H ;
Water St. V.							The state of the s

	The second secon		
Environmental Design & Research			274 North Goodman Street
217 Montgomery Street, Suite 1000	DATA FORM ROUTINE WETLAND DETERMIN	IATION	Rochester, New York 14607
Syracuse, New York 13202	Northcentral and Northeast Regional Supple		t tour tour room
0 1 11 1 1 - 05000	Town: Clayton	Sampling Date:	11 30
Project Number: 05030	County: Jefferson		-1470
Applicant: Horse Creek Wind Farm	State: New York	Community:	wet meadow
Data Point ID (I.e. 2W@Wet. G): \WW. WHW	MMM Nearest Flag to Data	Point: MMM°	-14
\			<u> </u>
Investigator(s): lippin Morton		ea a polential problem	area? Yes No
Landform: Hillside/Seep Toe of Slope Depressio	nal Riparlan	te significantly disturbe	d? Yes No
Landscape Position: Flat Undulating Sloping Con	vex Concave	mate Slope (%):	3-110_
Are climatic/hydrologic conditions on the site typical for this	s time of year? Yes No		
Do Normal Circumstances exist on site? (Yes) No			
Hydrology			
Primary Indicators (mln 1 required; check all that ap	ply)		econdary Indicators (min 2 required)
✓ Surface Water (A1)	➤ Water-Stained Leaves (89)		Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2) 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) Oxidized Rhizospheres on Living	Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	3 110010 (00)	Stunted or Stressed Plants (D-1)
Iron Deposits (B5)	Recent Iron Reduction in Tilled S	Soils (C6)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7) Other (Explain in Remarks)	-	Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Outer (Explain in Nembro)	2 / 2	FAC-Neutral Test (D5)
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			
Field Observations //		_ //	
Inundation Present? Yes/ No	Depth of Water (Inch		
Saturated Conditions? Yes No	Depth to Sat. Soil (inc	(2)	-
	Depth to Water (inch	05).	7
/		King Kong bacz	
Stream Characteristics N/A			Plane
The state of the s	Gradient: Substrate;	0 1	Flow:
Perennial Bank Width Gentle	Bed Rock	Sand	No Flow
Intermittent Stream Width Moderal		Slit	Gentle
Water DepthSteep	Cobble Gravel	Clay	Heavy
Adjacent Community Type:	Graver		
Instream Conditions:			
Obscurred Banks	Deep Pools	Overhanging V	
Well Defined Banks	Riffles & Pools	Vegetated Cha	nnei
Eroded/Undercut Bank		Oulor	
Remarks blydrologic connected drains out of the all east into a	from with wefly	l (forested	1) E. Wettal E
draine out of the	ne forested area	in to	this ag. Held/wm
of each in to a	PFO/255 we Hal	at Re	edge of the
are east into	11-(1)		<i>V</i>
tield.			

		Sar	mpling Date: 11/20\10
_			ata Point ID: Two Mmm 14
Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
			Total Number of Dominant Species Across All Strata: (B)
	-		Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
-	= Total Cover		Total % Cover of: Multiply by: OBL species
			FAC species
	STEET TO SHOW SHOW THE SECOND SHOWS SHOW FOR THE STEET		UPL species x 5 = Column Totals: (A) (E
			Prevalence Index = B/A =
_			
<u> </u>	-		
	-		
	= Total Cover		Hydrophytic Vegetation Indicators:
			Dominance Test >50% Prevalence Index is <3.01
(00)	yes	1/2	Prevalence index is \$3.0 Morphological Adaptations ¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation ¹ (explain in remarks)
	20	Sam	Indicators of hydric soil and wetland hydrology must be present,
	yes	1	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
-			then 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
1	-		and woody plants less than 3.28 ft tell. Woody vines - All woody vines greater than 3.28 ft in height.
8 2 2 2 2 2 2 2		£ 100-300	Damarka
-			de 110 ic hidrologius
-			TIMS WETTER 13 7
-			Connected with Wetled
	= Total Cover		E 19to. Wetled mmm
			C (189).
			is located in a key
			field al 15 been
		12	secently cut.
	-		Plant id was annimal.
	- Total C		
	- Total Cover		
		= Total Cover = Total Cover OU YES NO	Absolute Dominant Indicator Species? Status = Total Cover

	нежинение по применя выпуска в	1					. 1 . 1	
Project Number	r: 05030					ampling Date		lo
Applicant:	Horse Creek Wind Farm				_ 1	Data Point ID	: (ma)	wetlal mining
Soil Map Unit:	Chaomont	5:14, d	61/		_			
Soils		Profile Descr	lption: (Describe to the c	epth needed to	document the in	dicator or con	firm the absence	e of indicators).
Donth	Matrix			Redux Fea			11	
Depth (inches)	Color (moist)	%	Color (moist)	Frequency		Loc	Textur	re, Structure, Other
2514	I INSCALI		1042 5/10	1-	MAID	·M	Clas	loum
0-10	- WILLI		I TO IP TO					
							4	
							ļ	
	,							
					-			
					-		il -	
	Few, MA=Moderately Abunda entration, D=Depletion, RM=R			Cand Grains				
200000	entration, D=Depietion, RM=R Pore Lining, M=Matrix	eouceo matrix,	, CS-Covered of Coalec	Gand Grains				
				11			Н	
Hydric Soil In	ndicators			Problemati	e Hydric Soil Inc	dicators	Restrictive	Layer (If observed)
18.4174	4	Debarahy	- Dalam Curfosa (CO)	2 cm M	uck (A10)		Type:	
Histosol (A Histic Epipe			e Below Surface (S8) k Surface (S9)		rairie Redox (A1	6)		
Black Histic	c (A3)		lucky Mineral (F1)		ucky Peat or Pea	it (S3)	Depth (Inc	hes):
Hydrogen S Stratified La		V Depleted	leyed Matrix (F2) Matrix (F3)		urface (S7) ue Below Surface	e (S8)		
Depleted B	elow Dark Surface (A11)	Redox D	ark Surface (F6)	Thin Da	ark Surface (S9)			
	Surface (A12) ky Mineral (S1)		Dark Surface (F7) epressions (F8)		inganese Masses int Floodplain Soi			
Sandy Gley	red Matrix (S4)				Spodic (TA6)	•		
Sandy Red Stripped Ma					rent Material (TF nallow Dark Surfa			
Dark Surface				Other (Explain in remark	(s)		
3 Indicators of hy	drophytic vegetation and wetle	and hydrology	must be present unless	(i) disturbed or pro	oblematic.			
indicators of the	diophytic vegetation and trea	and nyolology		8.75 20.65 30.			Sanda Dan Kalendari	
Remarks	Cyclic So	·(ς	similar	+0	Wetla	ls I	11->	LLL
1 1	Corc							
*								
22 1 1								
10.0732-10.00								
					<u>er tronsky stropiacie</u>	202000000000000000000000000000000000000	2012-1-2010-1-2020-7-2	
Wetland Dete	rmination							
Hydric Soil Pres Wetland Hydrol	getation Present? Yes No sent? Yes No ogy Present? Yes No Point Within a Welland? Ye		Hydrologic Connectivity Does Any Part of this I Is this Wetland Potenti	elineated Wetl	and/Stream Exte	No N/A and Past the F	lagged Boundary	YOS NO NIA
Is the wetland	mapped in the NWI? Yes	5No	If yes, Indicate classific	ation PFO	31			
Is the wetland	a mapped state wetland?	Yes No	If yes, Indicate wetland	ID				
12				100			3	

Foodsau	Inn & Donoarch				
Environmental Des 217 Montgomery Str			DATA FORM		274 North Goodman Street
Syracuse, New York		R	OUTINE WETLAND DETE	RMINATION	Rochester, New York 14807
·		- 1	Northcentral and Northeast Regional	Supplement	. 1. 1
Project Number: 050	030		Town: Clayton	Sampling Da	ite: 11/30/10
A A STATE OF A STATE OF THE STA			County: Jefferson		110 1 10 1
Applicant: Ho	rse Creek Wind Farm		State: New York	Community:	- , , , , -
Data Point ID (i.e. 2	W@Wet. G):\ \	a wether w	Nearest Flag to	Data Point: MM (M	- 14
Investigator(s):	Rippla/NO	Non			6 —
	, 11			the area a potential probl	em area? Yes No
-22,00,000,000,000,000	e/Seep Toe of Slop			the site significantly distu	rbed? Yes (No)
		Sloping Convex	Concave	pproximate Slope (%):	0-2%
Are climatic/hydrolog	gic conditions on the s	ite typical for this time	of year? (Yes) No		
Do Normal Circums	tances exist on site?	(Yes No			
Hydrology					
.,,					
		hook all that and A	*		Secondary Indicators (mln 2 required)
Primary Indicators Surface Water (A	(min 1 required; c	песк вн тат арріу)			Surface Soil Cracks (B6)
High Water Tabl			Water-Stained Leaves (B9)	Drainage Patterns (B10)
Saturation (A3)	1045		Aquatic Fauna (B13) Marl Deposits (B15)		Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1 Sediment Depos			Hydrogen Sulfide Odor (C	1)	Cravfish Burrows (C8)
Drift Deposits (B	3)		Oxidized Rhizospheres on	Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1)
Algal Mat or Cru	st (B4)		Presence of Reduced Iron Recent Iron Reduction in T	(C4) Filled Solls (C6)	Geomorphic Position (D2)
Iron Deposits (B: Inundation Visible	e on Aerial Imagery (B	7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Sparsely Vegeta	ted Concave Surface	(B8)	Other (Explain in Remarks	5)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations		A) Z	Depth of Water	(inches)	
Inundation Present? Saturated Condition		No		oil (inches):	
Saturated Continon	01 165		Depth to Water		
		nan an chia sun di maria da maria			
Stream Characteris	stics				
Stream type;	Morphology:	Stream Gradi	ent: Substrate;		Flow:
- Contract	ink Width	Gentle	Bed Rock	Sand	No Flow
NO AND THE PROPERTY OF THE PARTY OF THE PART	ream Width	Moderate	Boulder	Silt	Gentle
- Andrews Contract Co	ater Depth	Steep	Cobble	Clay	Moderate
VV		(TIOF (B)	Gravel		Heavy
Adjacent Communit	y Type:				
Instream Conditions			Deep Pools	Overhanding	g Vegetation
	oscurred Banks ell Defined Banks		Riffles & Pools	Vegetated C	Channel
	oded/Undercut Bank	3		Other	
			The same of the same same label on the same same same same same same same sam		(1)
Remarks	Acar la	Cost	r in Action	le aa fie	d (Hay)
A 8	Non-hy	ovic soul	, ACHI		
1 1 11 11 11 11 11					The state of the s
7					
l A					

			*	
Project Number: 05030			Sar	mpling Date: (1/30/10
Applicant: Horse Creek Wind Farm				ata Point ID: I'M & wetful mmm
Vegetation	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Species?	\$146.400 and \$250.11	Number of Dominant Species That Are OBL, FACW, or FAC: (1) (A)
1NA				Total Number of Dominant
2.				Species Across All Strata: (B)
3.		× 0		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
4				Prevalence Index worksheet:
5				Total % Cover of: Multiply by:
			14	OBL species x1= FACW species x2=
		= Total Cover		FAC species x3=
				FACU species x 4 =
Sapilng/Shrub Stratum (Plot size: 15-foot radius)				UPL species x5 = Column Totals: (A) (B)
1. IMR				DOS STOREGOS
2.				Prevalence Index = B/A =
2.				
3				
4.				
5) East			
***************************************	7-000	= Total Cover		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation Dominance Test >50%
Herb Stratum (Plot size: 5-foot radius)			٠.	Prevalence Index Is <3.01
1. Hay field Ag. grasses	100	yes	facul	Morphological Adeptations (provide supporting data in remarks) Problematic Hydrophytic Vegetation (explain in remarks)
, , ,				Indicators of hydric soil and wetland hydrology must be present,
-				unless disturbed or problematic.
3		· -		Definitions of Vegetation Strata:
4				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5				Sapling/shrub - Woody plants less than 3 In. DBH and greater
	1.1\281			than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
6.				and woody plants less than 3.28 ft tell. Woody vines - All woody vines greater than 3.28 ft in height.
8.				Remarks
9.				Accord (Han)
10.				Active ag. Reld (Hay)
		= Total Cover		recently cut.
				I Iceary cui
Woody Vine Stratum (Plot size: 30-foot radius)				-1 500
1.				Distinct to edutify
2.		Y -		Distinct to identify individual Plants.
3.				
4.				
5	-		-	
		= Total Cover		

							1 1	
Project Number:			2				11/30/14	
Applicant:	Horse Creek Wind Farm					Data Point ID	: Ing M	ether mum
Soil Map Unit:	Chaumont	silty o	1sy					
Soils	1	Profile Descrip	tion: (Describe to the c	lepth needed to de	ocument the	Indicator or co	nfirm the absence	e of Indicators).
Depth	Matrix	lsi.		Redux Featur	es			
(inches)	Color (moist)	%	Color (moist)	Frequency'	Type ^c	Loc	Textur	re, Structure, Other
DYPA	LOYD MA		~			~	Cilt	loun
	to the test						11-701	
				• (************************************	· · · · · · · · · · · · · · · · · · ·	***		
						-		
					-		4	
	The state of the s						4	
	* 4				-	-	4	
¹ Frequency: F=Fe	w, MA=Moderately Abund	ant, C=Common					IA	
² Type: C=Concent	tration, D=Depletion, RM=		CS=Covered or Coated	Sand Grains				
*Location: PL=Por	e Lining, M=Matrix		SDANISTA KANGO					
Hydric Soil Indi	Instara			Problematic F	Judrie Sall II	ndlestores	Postrictivo	Layer (if observed)
riyane Son ma	icators			Fioblemanci	iyunc son n	nuicators	Nestricave	Layer (ii observeu)
Histosol (A1) Histic Epipedo	on (A2)		Below Surface (S8) Surface (S9)	2 cm Mucl	k (A10) Irle Redox (A	(16)	Type:	
Black Histic (#	A3)	Loamy Mu	cky Mineral (F1)	5 cm Mucl	ky Peat or Pe		Depth (Inc	hes):
Hydrogen Sul Stratified Laye		Loamy Gle	eyed Matrix (F2) Vatrix (F3)	Dark Surfe Polyvalue	ace (S7) Below Surfa	ce (S8)		
	ow Dark Surface (A11)	Redox Dar	rk Surface (F6)		Surface (S9) janese Masse			
Thick Dark Su Sandy Mucky			Dark Surface (F7) pressions (F8)	Pledmont	Floodplain S			
Sandy Gleyed Sandy Redox				Mesic Spo	odic (TA6) nt Material (T	F2)		
Stripped Matri	ix (S6)			Very Shall	low Dark Sur	face (TF12)		
Dark Surface	(87)			Other (Exp	plaln in remai	rks)		
3Indicators of hydro	ophytic vegetation and we	The last record transport of the state of the community of the state o	ust be present, unless	disturbed or probl	lematic.			
Remarks	Ag. soils	- NON	- hydriz.					
:								
				11 14				
11-1								
							100	
Wetland Determ	nination							
Hydric Soil Presen Wetland Hydrology	ation Present? Yes (No t? Yes (No y Present? Yes (No oint Within a Wetland? Y		Hydrologic Connectivity Does Any Part of this D s this Wetland Potentia	elineated Wetland		end Past the F	lagged Boundary	7 Yes No MA
Is the wetland ma	apped in the NWI? Ye mapped state wetland?	Yes No	f yes, indicate classific f yes, indicate wetland					
			100					

	<u> </u>	1	
Environmental Design & Research			974 Modb Goodman Street
217 Montgomery Street, Suite 1000	DATA FORM	ON	274 North Goodman Street
Syracuse, New York 13202	ROUTINE WETLAND DETERMINATI		Rochester, New York 14607
	Northcentral and Northeast Regional Supplement		17/01/10
Project Number: 05030	Town: Claylon	_Sampling Date:	1001 10
	County: Jefferson		Or. lorc
Applicant: Horse Creek Wind Farm	State: New York	_Community:	10/12
Data Point ID (I.e. 2W@Wet. G): \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Nearest Flag to Data Poln	1: NNM-U	
D'an'a			
Investigator(s): Pigpin	Is the area a	potential problem	area? Yes (No)
Landform: Hillside/Seep Toe of Slope Depression	nal Rinarian	gnificantly disturbe	
Landscape Position Flat Undulating Sloping Con-	vex Concave Approximate		2-7.96
Are climatic/hydrologic conditions on the site typical for this	time of year? (Yes) No	54	
Do Normal Circumstances exist on site? (Ves) No	~		
Hydrology			
			AND THE PERSON OF THE PERSON O
Primary Indicators (min 1 required; check all that app Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	\$	econdary Indicators (min 2 required) Surface Soil Cracks (86) Drainage Patterns (810) Moss Trim Lines (B16)
Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)		Moss 1nm Lines (B10) Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Cravfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	 Oxidized Rhizospheres on Living Ro 	ols (C3) _	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	(C6) -	Geomorphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	()	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	_	Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
Field Observations		1-0"	
Inundation Present? Yes No	Depth of Water (inches):		
Saturated Conditions? Yes No	Depth to Sat. Soil (Inches)	0	
	Depth to Water (inches):		
Stream Characteristics N/A	O. H. C.		Flow:
Stream type: Morphology: Stream	Gradient: Substrate:	Sand	No Flow
Perennial Bank Width Gentle	Bed Rock		Gentle
Intermittent Stream Width Moderal		Silt Clay	Moderate
Water DepthSteep	Cobble		Heavy
	Gravel	-	110007
Adjacent Community Type:			
Instream Conditions: Obscurred Banks	Deep Pools	_ Overhanging V	
Well Defined Banks		Manufaled Cha	anal
Well Delined Dalks	Riffles & Pools	_ Vegetated Cha	nnei
Eroded/Undercut Bank		_ Other	· ·
Eroded/Undercut Bank	Riffles & Pools	Other	.
Eroded/Undercut Bank	Riffles & Pools	Other	.
Eroded/Undercut Bank	Riffles & Pools	Other	.
Eroded/Undercut Bank	Riffles & Pools	Other	.
Eroded/Undercut Bank	Riffles & Pools	Other	.
Eroded/Undercut Bank	Riffles & Pools	Other	.

Project Number: 05030 Applicant: Horse Creek Wind Farm				mpling Date: 12/01/18 ata Point ID: 100 WELL& NNN
Vegetation Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. America elm	10	Acz	facul	That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 15-foot radius) 1. Willow Shrub (Sulix Sp.)	70	= Total Cover	Saw	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species
2. Spirea alba 3.		_ 0/A	facul	Flansing lines - DIV -
5		= Total Cover		Hydrophytic Vegetation Indicators: VRapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 8-foot radius) 1. Scirpus Cylerinius 2. Lincus Cffisus 3. Feed Conary grass 4. 5. 8. 9. 10. Woody Vine Stratum (Plot size: 30-foot radius) 1. 2. 3. 4. 5.		= Total Cover		Dominance Test >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators 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 3.28 ft (1 m) tail. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft in height. Remarks NOC+ of wolld Logg-ed. Lubbe 13 Perform Complete Plant id.
	yan .	= Total Cover		

				- Appendix and a second		Sampling Date:	: 12/01/10
Project Number: 0						Data Point ID	ING WHAL NIN
Applicant: H	lorse Creek Wind Farm					DUICE TO SECTION	
Soll Map Unit:	Chaumont s	ilty el	sy	-			
Solis		Profile Descrip	tion: (Describe to the de	epth needed to de	ocument the	Indicator or con	firm the absence of Indicators).
Depth	Matrix			Redux Featur		Loc³	
(Inches)	Color (molst)	%	Color (moist)	Frequency'	Type ^z	Texture, Structure, Other	
	1048 91		1045 28	<u> </u>	<u>D</u>	M	Clay loan
				i 1			
							District Control of the Control of t
						(1	
	- 10 M						
题.				. —		-	
¹ Frequency: F=Fev	w, MA=Moderately Abunda ration, D=Depletion, RM=I	ent, C=Common	CarCovered or Coaled	Sand Grains			
³ Location: PL=Pore	ration, D=Depietion, RM=1 e Lining, M=Matrix	Reduced Madix,	35-covered of coaled	Gand Olding			
				ll -		Autography and Auto	[[
Hydric Soil Indi	cators		•	Problematic I	Hydric Soll	Indicators'	Restrictive Layer (if observed)
Histosol (A1)			Below Surface (S8)	2 cm Muc			Type:
Histic Epipedo Black Histic (A			Surface (S9) icky Mineral (F1)		airie Redox (cky Peat or F		Depth (Inches):
Hydrogen Sulf		Loamy Gle	eyed Matrix (F2)	Dark Surface (S7) Polyvalue Below Surface (S8)			and to come
Stratified Laye	ers (A5) w Dark Surface (A11)	X Depleted I	Vlatrix (F3) rk Surface (F6)	Polyvalue	Surface (S	ace (56) 9)	A CONTRACTOR OF THE CONTRACTOR
Thick Dark Su	rface (A12)		Dark Surface (F7) pressions (F8)		ganese Mas I Floodplain		
Sandy Mucky Sandy Gleyed	200 m	Kedox De	pressions (Fo)	Mesic Sp	odic (TA6)	E-source states	RESIDENCE.
Sandy Redox Stripped Matri					ent Material (llow Dark St	(TF2) urface (TF12)	
Dark Surface				Other (Ex	oplaln in rem	arks)	Section 1
3Indicators of hydro	ophytic vegetation and we	land hydrology m	oust be present, unless	 disturbed or prob 	olematic.		
Remarks 16	1	. 4					
Н	lydril so	115.					
	1 -	V 4 0 200000					
						(2)	
			CONTROL OF THE CONTRO				
							The second secon
Wetland Detern	nination			90.58 DW National		3	
Hydric Soll Presen	v Present? (Yes) No		Hydrologic Connectivity Does Any Part of this E Is this Wetland Potenti	Delineated Wetla	nd/Stream E	xtend Past the F	Flagged Boundary? Fes No N/A
	oint Within a Welland?	~	and the continuous pages are accommon to the	Date ##KEO1E0			
Is the wetland m Is the wetland a	apped in the NWI? Ye mapped state wetland?	Yes No	If yes, indicate classific If yes, indicate wetland				

Empleanmental Deaters 9 D	nenarch									
Environmental Design & R 217 Montgomery Street, Suit			DATA FORM		274 North Goodman Street					
Syracuse, New York 13202		ROUTINE	WETLAND DETERMIN	ATION	Rochester, New York 14607					
		Northcentre	al and Northeast Regional Suppler		1-1411					
Project Number: 05030			wn: Clayton	Sampling Date:	12/01/10					
H			nty: Jefferson		25- 1016 1 C. 12					
510.90	ek Wind Farm		ate: New York	Community:	1.9					
Data Point ID (i.e. 2W@We	ı.g): <u> [W</u> @ W	NNN LINK	Nearest Flag to Data I	Point: NMA)~G						
Investigator(s):				ea a polential problen	n area? Yes (No					
Landform: HillsIde/Seep	Toe of Stope (De	pressional Riparlan	le the ell	e significantly disturbe	ed? Yes No					
Landscape Position: (Fiat)	Landscape Position: Flat Undulating Stoping Convex Concave Approximate Stope (%): 6-2/6									
Are climatic/hydrologic condi	itions on the site typic	al for this time of year?	AND THE RESIDENCE OF THE PERSON OF THE PERSO	100AC 50 S.D. (140 Probe 52 S.D. (140 Prob						
	1.00									
Do Normal Circumstances e	xist on site? (Yes)	No								
Hydrology										
The state of the s	A CONTRACTOR OF THE PROPERTY O	4.4.4.4	(e)		Secondary Indicators (min 2 required)					
Primary Indicators (min ' Surface Water (A1)	1 required; check al	that apply)			Surface Soil Cracks (B6)					
Surface Water (A1) High Water Table (A2)			r-Stained Leaves (89)		Drainage Patterns (B10) Moss Trim Lines (B16)					
Saturation (A3)			tic Fauna (B13) Deposits (B15)	9	Dry-Season Water Table (C2)					
Water Marks (B1) Sediment Deposits (B2)		Hydro	ogen Sulfide Odor (C1)		Cravfish Burrows (C8)					
Drift Deposits (B3)		Oxidi	zed Rhizospheres on Living ence of Reduced Iron (C4)	Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1)					
Algal Mat or Crust (B4) Iron Deposits (B5)		Prese	nt Iron Reduction in Tilled S	oils (C6)	Geomorphic Position (D2)					
Inundation Visible on Aer	ial Imagery (B7)	Thin i	Muck Surface (C7)		Shallow Aquitard (D3) Microtopographic Relief (D4)					
Sparsely Vegetaled Cond	cave Surface (B8)	Other	(Explain in Remarks)		FAC-Neutral Test (D5)					
Field Observations	Yes	No	Depth of Water (Inche	es):						
Inundation Present? Saturated Conditions?	Yes	No	Depth to Sat. Soil (Inc	ches):	2					
	2000 2000 -		Depth to Water (Inche	es):						
Stream Characteristics	45/1	erfelde erffelt fill falle i besetzen in zoet zu de besetzet aus	See Diebon a contragant and the see as you can see a see							
Stream type: Morpho	ology:	Stream Gradient:	Substrate:		Flow;					
Perennial Bank Widt		Gentle	Bed Rock	Sand						
Intermittent Stream Wi	idth	Moderate	Boulder	Silt						
Water Dep	oth	Steep	Cobble	Clay	Moderate					
			Gravel		Heavy					
Adjacent Community Type:		-								
Instream Conditions: Obscurred	Banks	Deep Po	ols	Overhanging \	Vegetation					
Well Defin		Riffles &		Vegetated Cha	annel					
	ndercut Bank	Washington A		Other						
		51.0		17.000000000000000000000000000000000000						
Damarka										
Remarks No	Englodagy	observed.								
	177									
	8 (2									

				i i
Project Number: 05030			Sa	mpling Date: 12/01/10
Applicant: Horse Creek Wind Farm				ala Point ID: LUG WET WIL NINN
Vegetation	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Specles?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. N &				Total Number of Dominant
2	s -			Species Across All Strata:(B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
4.				Prevalence Index worksheet:
5				Total % Cover of: Multiply by:
0		~		OBL species x1= FACW species x2=
	***************************************	= Total Cover		FACW species x2 = FAC species x3 =
				FACU spedes x4=
Sapling/Shrub Stratum (Plot size: 15-foot radius)				UPL species x5 = Column Totals: (A)
1. ND				
· · · · · · · · · · · · · · · · · · ·				Prevalence Index = B/A =
2.				
3				
4.			¥	A 5 2
4.)				
5	,			
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5-foot radjus)				Rapid Test for Hydrophytic Vegetation Dominance Test >50%
	Lasts	· nl	C	Prevalence Index is <3.01
1. Ag Red (Hay) grasses	(00)	462	facu	Morphological Adaptations ¹ (provide supporting data in remarks) Problematic Hydrophytic Vegetation ¹ (explain in remarks)
2.				Indicators of hydric soil and wetland hydrology must be present,
				unless disturbed or problematic,
3.		74 - Harrison - 4 3		Definitions of Vegetation Strata:
4.				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
5				than 3.28 ft (1 m) tall.
6.				Herb - All herbaceous (non-woody) plants, regardless of size,
7				and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
7 8.	-			Remarks
9.				Active huy field that has been lecently
•	100			Active may there
10.				1 1 1 1
	7	= Total Cover		has been lecentry
Woody Vine Stratum (Plot size: 30-foot radius)				Cut
[]				
1. — 1/1		-		
2.			***************************************	
3			70.00	
				* * * * * * * * * * * * * * * * * * * *
4.			- 10	
5			2	
		= Total Cover		
	•	14141 44101		

Project Number:	05030					Sampling Date	0: 12 01 10
Applicant: I	Horse Creek Wind Farm	3				Data Point ID	: Juli wether NNA
Soil Map Unit:	Chaumont	silty	clay			Υ.	
Soils		Profile Descrip	otion: (Describe to the	depth needed to d	ocument the	Indicator or cor	nfirm the absence of indicators).
Depth	Matrix			Redux Featur	res		NI TOTAL
(Inches)	Color (moist)	%	Color (moist)	Frequency'	Type ²	Locs	Texture, Structure, Other
0-64	INTRALA		<u> </u>				I silt loan
			*****	-			
		·		-	-	-	
	- James - Char	· —		•	•	-	
		·					
				-	-		
	w, MA=Moderately Abund		00-0	I Could Coolea			
	tration, D=Depletion, RM= e Lining, M=Matrix	Reduced Matrix,	CS=Covered or Coated	Sand Grains			
				11			TI
Hydric Soil Indi	cators			Problematic I	Hydric Soil Ir	ndicators ³	Restrictive Layer (if observed)
Histosof (A1)		Polyvalue	Below Surface (S8)	2 cm Muc	k (A10)		Туре:
Histic Epipedo Black Histic (A			Surface (S9) icky Mineral (F1)		irie Redox (A ky Peat or Pe		Depth (inches):
Hydrogen Sulf	fide (A4)	Loamy Gle	eyed Matrix (F2)	Dark Surfa	ace (S7)	Life 1	Deput (inches).
Stratified Laye Depleted Belo	ers (A5) w Dark Surface (A11)		Matrix (F3) rk Surface (F6)		Below Surface Surface (S9)		
Thick Dark Su	ırface (A12)	Depleted I	Dark Surface (F7)	Iron-Mang	anese Masse	s (F12)	
Sandy Mucky Sandy Gleyed		Redox De	pressions (F8)	Pleamont	Floodplain So odic (TA6)	olis F19)	
Sandy Redox Stripped Matri					nt Material (Ti		
Dark Surface					plain in remar		
3 Indicators of hydro	ophytic vegetation and we	land hydrology m	ust be present unless	disjurbed or probl	lematic:		
							.11
Remarks	(1 1 4	. (. 1	(-	0.11			
/	Non Ingdri	C 3011) ir Ni	in new.			
	1			1			
ar a							
	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE					NAME OF THE PARTY	The second section is a second
Wetland Determ	lination						
Hydric Soil Present Wetland Hydrology	ation Present? Yes (No. 12 Yes		Hydrologic Connectivity Does Any Part of this D Is this Wetland Potenti	elineated Wetland	d/Stream Exte	end Past the F	lagged Boundary? Yes No NIA
	apped in the NWI? Ye mapped state wetland?		if yes, indicate classific If yes, indicate wetland				

Environmental Design & Research	DATA FORM 274 North Goodman Street
217 Montgomery Street, Suite 1000	DATA FORM 274 North Goodman Street ROUTINE WETLAND DETERMINATION Rochester, New York 14607
Syracuse, New York 13202	Northcentrel and Northeast Regional Supplement
Proloct Number: 05030	Town: Clayton Sampling Date: 7 10
Project Number: 05030	County: Jefferson
Applicant: Horse Creek Wind Farm	State: New York Community: Wm PSS PFO
Data Point ID (I.e. 2W@Wet. G): Walke Hid OD	Nearest Flag to Data Point: 000-10
Data College Co. 27 Colomo College	
Investigator(s): Rippin	Is the area a potential problem area? Yes No
Landform: Hillside/Seep Toe of Slope Depressional	Riparlan
Landscape Position: Flat Undulating Sloping Conver	x Concave Supe from forest else Approximate Slope (%): 8. Allo
Are climatic/hydrologic conditions on the site typical for this tir	
Do Normal Circumstances exist on site? Yes No	
Hydrology	
Primary Indicators (min 1 required; check all that apply	Secondary Indicators (min 2 required)
Surface Water (A1)	Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B13) Moss Trim Lines (B16)
Water Marks (B1)	Mart Deposits (B15) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Stunted or Stressed Plants (D-1)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7) Other (Explain in Remarks) Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks) Microtopographic Relier (D4) FAC-Neutral Test (D5)
Floid Observations	·
Field Observations Inundation Present? Yes No No	Depth of Water (inches): 2-311
Saturated Conditions? Yes No	Depth to Sat. Soil (Inches):
	Depth to Water (inches):
Stream Characteristics	
Stream type: Morphology: Stream Gra	/ 11 #1
Perennial Bank Width A Gentle	Bed Rock Sand No Flow
Intermittent Stream Width 2 Moderate	Boulder Silt Gentle V
Water Depth 7-34 Steep	Cobble Clay Moderate Heater
	Gravel Heavy
Adjacent Community Type:	
Instream Conditions:	
Obscurred Banks	Deep Pools Overhanging Vegetation
Well Defined Banks	Riffles & Pools Vegetated Channel Other
Eroded/Undercut Bank	
	a to to be a to the suit of
Remarks Wether begins in	forested (wes) Portion Plows through a
Narrow Struk com	unity we into an ingermittee
anenggy a west	meadow community. Adsacret community
is uptal forest a	l old field.
wetter very six	mendow community. Adsocrat Community of old sield.

Applicant: Horse Creek Wind Farm		Fig.		mpling Date: 17 0 10 are Helled 000
		n.		THE MANAGEM
Vegetation <u>Tree Stratum</u> (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Ted Maple	30	yes	tac	Total Number of Dominant
2 (ronwood (A. Hornbehm)	38_	Les	(4c	Species Across Ali Strata:
3. Green Ash	_70_	405	Sam	Percent of Dominant Species That Are OBL, FACW, or FAC: \(\big(\frac{1}{2}\)_ (A/B)
4.			-	Prevalence Index worksheet: Total % Cover of: Multiply by:
5				OBL species x1= FACW species x2=
		= Total Cover	AND THE PERSON NAMED IN	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)				FACU species
CILLY SAL	30	2005	Facul	Column Totals: (A)
1. Salk day	20	Coc	fain	Prevalence Index = B/A =
2. Silky Organovil	70	70	En1.	
3. Scy dogword		- yes	TAL	
4. Ted upp saplings	-5-	_ NO_	tal	
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 8-foot radius)				√Rapid Test for Hydrophytic Vegetation Dominance Test >50%
Solidara D.	20	5	Salw	Prevalence Index is ≤3.0³ Morphological Adaptations³ (provide supporting data in remarks)
Aclast so	20	Tes	tun	Problematic Hydrophytic Vegetation¹ (explain in remarks) ¹Indicators of hydric soil and welland hydrology must be present,
2 Hatel 1 Sp.	20	Jes	Olal	unless disturbed or problematic.
3. Surcas esfusus		70		Definitions of Vegetation Strata:
4. School Cyknins		No	farm	Tree - Woody plants 3 In. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5 <u>Care X Sp.</u>	20	yes No	FUCM	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
e. <u>Scirpus</u> atrovirers	_5		- Opl	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.
8.			***************************************	Remarks
9.				
10.				
		= Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)			September 100	
of / A				
1		-		
2.		-	-	
3.				
4		-		
5	-		-	
		= Total Cover	×	

		1000 - 100 -				Sampling Date	12/01/1	D	
Project Number: Applicant:	05030 Horse Creek Wind Farm	2.1021				Data Point ID		elled our	3
Applicant.	THOUSE CIEEK WHILE FAITH			7		Data Control	11100	-100	
Soil Map Unit:	Chaumont:	silty cl	44						
Solls		Profile Descrip	tion: (Describe to the de	epth needed to	document the	Indicator or cor	nfirm the absence	of indicators).	
Depth [Matrix	LI		Redux Featu			ΙÍ		
(Inches)	Color (moist)	%	Color (moist)	Frequency ¹	Type ^c	Loc	Texture	, Structure, Other	r
0-5	1042 42	106					Silt	Clay	
52	1048 2/1	U0	10425/9	(6	M	Clas	1	
	10 11 11		10127			V			
			7	-		-			
	-			-					
			,			Name and Address of the Owner o			
			200-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-						
Frequency: F=Fe	ew, MA=Moderately Abund	dant, C=Common					*		
	ntration, D=Depletion, RM: re Lining, M=Matrix	=Reduced Matrix, C	CS=Covered or Coated	Sand Grains					
							ri	Selection (Con-	
Hydric Soil Ind	licators			Problematic	Hydrlc Soll I	indicators'	Restrictive	Layer (if obser	ved)
Histosol (A1)	N .	Polwalue	Below Surface (S8)	2 cm Mu	ck (A10)		Type:		
Histic Epiped	lon (A2)	Thin Dark	Surface (S9)	Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3)			Depth (inch	00).	
Black Histic (Hydrogen Su			cky Mineral (F1) yed Matrix (F2)	Dark Su	rface (S7)		Deput (ilicii	GSJ	_
Stratified Lay		Depleted N	Aatrix (F3) k Surface (F6)		e Below Surfa k Surface (S9				
Thick Dark S		Depleted [Park Surface (F7)	Iron-Mar	nganese Mass	ses (F12)			
Sandy Mucky Sandy Gleye	/ Mineral (S1)	Redox Dep	pressions (F8)		nt Floodplain S podic (TA6)	Solls F19)			
Sandy Redox	c (S5)			Red Pan	ent Material (1				
Stripped Mate Dark Surface					allow Dark Su xplain in rema				
		alland budsalasus	unt ha neagant surlace d	linturbed or pro	blomatic				
indicators of nyo	rophytic vegetation and w	epand nydrology m	ust be present, unless t	iisturbed or pro	Diemauo.		JI		Batte
Remarks									
	Hydriz	Soil	a						
	, [-								
	,								
-									
								THE RESERVE SPECIFICATION	concseq#8
									220
Wetland Deterr	mlnation								
Hydrophytic Vege		No !	Hydrologic Connectivity	to Off-site Wet	lands? (Yes	No N/A	7 J.Dd	CS No NVA	
Hydric Soil Presei Wetland Hydrolog	nt? Yes No.	_	Does Any Part of this Does this Wetland Potentia	elineated Wetla Ily Isolated?	ind/Stream Ex Yes No N	ktend Past the F I/A	lagged Boundary	Yes No NIA	kg)
Is this Sampling F	Point Within a Wetland?		an emineral montre emineral and the second					10	
Is the wetland n	napped in the NWI? Y	es No	f yes, indicate classifica			Flows	through	1 / 1	11
	mapped state wetland		f yes, indicate wetland l	D		to be	through druck all	day 119	i WD
			Volce:			Ni	O SHIBU	1,	-

		Northcentr To Cou	DATA FORI WETLAND DET at and Northeast Region wn: Clayton nty: Jefferson ate: New York	ERMINATION al Supplement Sampling Da	274 North Goodman Street Rochester, New York 14607 ate: 12/b/10 LOJAL Old field Facest ex
	(I.e. 2W@Wet. G): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Hel boo	Nearest Flag	o Data Point:	
Investigator(s): Landform: H Landscape Pos Are climatic/hy Do Normal Circ	Sippin	Depressional Riparlar Ing Convex Concave	moderale !	s the area a polential probles the site significantly disturpproximate Slope (%):	lem area? Yes (No)
Hydrology					
Surface William Water Saturation Water Mari Sediment I Drift Depos Algal Mat o Iron Depos Inundation	r Table (A2) (A3) ks (B1) Deposits (B2) its (B3) or Crust (B4)	Wate Aqua Marl Hydra Oxidi Press Rece Thin	r-Stained Leaves (I tic Fauna (B13) Depen Sulfide Odor (zed Rhizospheres c ence of Reduced In nt Iron Reduction in Muck Surface (C7) (Explain In Remark	c1) n Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (min 2 required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C6) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D-1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
				and the second second	
Field Observa Inundation Pre- Saturated Con-	sent? Yes	No	Depth of Wate Depth to Sat. Depth to Wate	Soll (inches):	
Stream Chara Stream type:	Morphology:	Stream Gradlent:	Substrate:		Flow:
Perennial	Bank Width	Gentle	Bed Rock	Sand	No Flow
Intermittent	Stream Width Water Depth	Moderate Steep	Boulder Cobble Gravel	SiltClay	Gentle Moderate Heavy
Adjacent Com	munity Type:	_			
Instream Cond	itions: Obscurred Banks Well Defined Banks Eroded/Undercut Bank	Deep Por		Overhanging Vegetated C	g Vegetation Channel
Remarks	No hydrologi	observed	in uplu	l commit	ies,

Project Number: 05030 Applicant: Horse Creek Wind Farm	-			ampling Date: 12 61/17 ata Point ID: 110 146/14/ 000
Vegetation	Absolute	Domînant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30-foot radius)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Yel Oak	70	40	tary	Total Number of Dominant
2. Shagbusk Hickory		yes_	talu	Species Across All Strata: (B)
3. Ited Maple		ND	tal	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet: Total % Cover of: Multiply by:
* ***********************************	•	≒ Total Cover		OBL species x1 = FACW species x2 =
			100 E 94 9 5 3 5 4	FAC species x3 = FACU species x4 =
Sapling/Shrub Stratum (Plot size: 15-foot radius)				UPL species x 5 =
- mangled .				
2.				Prevalence Index = B/A =
3.	×			
	*	3	16 400 100.12	
4.				
5				
	-	■ Total Cover		Hydrophytic Vegetation Indicators:Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: δ-foot radius)		a charle to make a calculation to the		Dominance Test >50% Prevalence Index is ≤3.01
1. Solidajo Sp.	30	405	She_	Morphological Adaptations¹ (provide supporting data in remarks) Problematic Hydrophylic Vegetation¹ (explain in remarks)
2. Aster Sp.	.39	yes	fal	Indicators of hydric soil and wetland hydrology must be present,
3. Theother grass	05	yes	facu	unless disturbed or problematic.
4 rubus so.	25		SALL	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height. Sepling/shrub - Woody plants less than 3 in. DBH and greater
•	-		1	than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size,
6.	-			and woody plants less than 3.28 ft fall.
7.	-			Woody vines - All woody vines greater than 3.28 ft in height.
8.		-	-	Remarks
9				Singlyon Same old field as welland AAA.
10.			-	old field as
3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		= Total Cover		110 111
				Welland AAT.
Woody Vine Stratum (Plot size: 30-foot radius)				* * * *
1. NA		-		
2.				
3.				
4	77.0			
	-		•	
5				
		= Total Cover		
*		- Maria - Haran - Maria - Mari		Land the second

							7 (
Project Number	: 05030					Sampling Date	
Applicant:	Horse Creek Wind Farm					Data Point ID	1 (S) 1 [[[]] 1 (S) 4 A
Soll Map Unit:	Charment	silty o	-194				
Soils			otion: (Describe to the c	lepth needed to do	cument the I	ndicator or cor	nfirm the absence of Indicators).
				Company Company	RANGE SON		H
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Redux Feature Frequency	Type ⁴	Loc³	Texture, Structure, Other
1-16+	10482/1		_				Sill Chia
0.2//3	1016.11	700		• • •			717 00
						-	light and the second se

				-			
					4, 1		tel
	Few, MA=Moderately Abund entration, D=Depletion, RM=		CS=Covered or Coated	Sand Grains			
	ore Lining, M=Matrix	recouced manay					
				<u> </u>			II
Hydric Soil In	dicators			Problematic H	ydric Soll in	dicators	Restrictive Layer (if observed)
Histosol (A	D	Polyvalue	Below Surface (S8)	2 cm Muck	(A10)		Type:
Histic Epipe	edon (A2)	Thin Dark	Surface (S9)	Coast Prair	rie Redox (A		
Black Histic Hydrogen S			ucky Mineral (F1) eyed Matrix (F2)	S cm Muck	y Peat or Pe ce (S7)	at (53)	Depth (inches):
Stratified La		E Depleted !	Matrix (F3)		Below Surfac		
	elow Dark Surface (A11) Surface (A12)		rk Surface (F6) Dark Surface (F7)		Surface (S9) anese Masse		
Sandy Mucl	ky Mineral (S1)	Redox De		Pledmont F	loodplain So		
Sandy Gley Sandy Red	ed Matrix (S4) ox (S5)			Mesic Spoo	t Material (Ti		
Stripped Ma	ntrix (S6)			Very Shallo	w Dark Surf		
Dark Surfac	æ (57)			Other (Expl	lain in remar	KS)	
³ Indicators of hy	drophytic vegetation and we	atland hydrology m	ust be present, unless	disturbed or proble	matic.	ride Sixt or Abita West II.	
Remarks							
	Durk Suil	(bu)	r not c	vet.			
*			Y 0.5 5			- 2 K	
					To the state of th		
Wetland Dete	rmination						
Hydrophytic Veg	etation Present? Yes (N	lq.	Hydrologic Connectivity	to Off-site Wetlan	ds? Yes	No NA	
Hydric Solf Presi	ent? Ves No	/	Does Any Part of this D	elineated Wetland	/Stream Exte	end Past the F	lagged Boundary? Yes No N/A
vveuana Hyarold Is this Sampling	ogy Present? Yes (No Point Within a Wetland?		is this Wetland Potentia	illy isolated? Ye	S NO NIA		\sim
			If you indicate standing	atton			
	mapped in the NWI? Ye a mapped state wetland?		If yes, indicate classifications in the control of	Millionian At			
	C. C	<u> </u>		*			

APPENDIX C

PHOTOS OF REPRESENTATIVE WETLAND COMMUNITIES



PHOTO 01:

Wetland A.



PHOTO 02:

Stream A.

Horse Creek Wind Farm





PHOTO 03:

Wetland B.



PHOTO 04:

Wetland C.

Horse Creek Wind Farm





PHOTO 05:

Wetland D.



PHOTO 06:

Wetland E.

Horse Creek Wind Farm





PHOTO 07:

Wetland F.



PHOTO 08:

Intermittent Stream G.

Horse Creek Wind Farm





PHOTO 09:

Wetland H.



PHOTO 10:

Wetland I.

Horse Creek Wind Farm





PHOTO 11:

Wetland J.



PHOTO 12:

Wetland K.

Horse Creek Wind Farm





PHOTO 13:

Wetland L.



PHOTO 14:

Wetland M.

Horse Creek Wind Farm





PHOTO 15:

Wetland N.



PHOTO 16:

Intermittent Stream O.

Horse Creek Wind Farm





PHOTO 17:

Wetland P.



PHOTO 18:

Intermittent Stream Q.

Horse Creek Wind Farm





PHOTO 19:

Wetland R.



PHOTO 20:

Intermittent Stream R.

Horse Creek Wind Farm





PHOTO 21:

Wetland S.



PHOTO 22:

Wetland SA.

Horse Creek Wind Farm





PHOTO 23:

Wetland SB.



PHOTO 24:

Wetland T.

Horse Creek Wind Farm





PHOTO 25:
Intermittent Stream U.



PHOTO 26: Wetland V.

Horse Creek Wind Farm





PHOTO 27:

Wetland W.



PHOTO 28:

Intermittent Stream X.

Horse Creek Wind Farm





PHOTO 29:

Wetland Y.



PHOTO 30:

Wetland Z.

Horse Creek Wind Farm





PHOTO 31:

Wetland AA.



PHOTO 32:

Wetland BB.

Horse Creek Wind Farm





PHOTO 33:

Wetland CC.



PHOTO 34:

Wetland DD.

Horse Creek Wind Farm





PHOTO 35:

Wetland EE.



PHOTO 36:

Wetland FF.

Horse Creek Wind Farm





PHOTO 37:
Intermittent Stream GG.



PHOTO 38:
Intermittent Stream HH.

Horse Creek Wind Farm





PHOTO 39:

Wetland II.



PHOTO 40:

Wetland JJ.

Horse Creek Wind Farm





PHOTO 41:

Wetland KK.



PHOTO 42:

Wetland LL.

Horse Creek Wind Farm





PHOTO 43: Wetland MM.



PHOTO 44:
Wetland NN.

Horse Creek Wind Farm





PHOTO 45: Wetland OO.



PHOTO 46: Wetland PP.

Horse Creek Wind Farm





PHOTO 47:

Wetland QQ.



PHOTO 48:

Wetland RR.

Horse Creek Wind Farm





PHOTO 49:

Wetland SS.



PHOTO 50:

Wetland TT.

Horse Creek Wind Farm





PHOTO 51:

Wetland UU.



PHOTO 52:

Wet Meadow UU.

Horse Creek Wind Farm





PHOTO 53:

Wetland VV.



PHOTO 54:

Wetland WW.

Horse Creek Wind Farm





PHOTO 55:

Wetland XX.



PHOTO 56:

Intermittent Stream YY.

Horse Creek Wind Farm





PHOTO 57:

Wetland ZZ



PHOTO 58:

Wetland AAA.

Horse Creek Wind Farm





PHOTO 59:

Wetland BBB.



PHOTO 60:

Intermittent Stream CCC.

Horse Creek Wind Farm





PHOTO 61:
Wetland DDD.



PHOTO 62: Wetland EEE.

Horse Creek Wind Farm





PHOTO 63:

Wetland FFF.



PHOTO 64:

Wetland GGG.

Horse Creek Wind Farm





PHOTO 65:

Wetland HHH.



PHOTO 66:

Wetland III.

Horse Creek Wind Farm





PHOTO 67:

Wetland JJJ.



PHOTO 68:

Wetland KKK.

Horse Creek Wind Farm





PHOTO 67:

Wetland LLL.



PHOTO 68:

Wetland MMM.

Horse Creek Wind Farm





PHOTO 69:

Wetland NNN.



PHOTO 70:

Wetland OOO.

Horse Creek Wind Farm

