Project/Site: Ball Hill Wind P	Project City/9				
Applicant/Owner: Ball Hill Win					
Investigator(s): B. V. RTS	Sect	ion, Township, Range:	Town of	V: Herour	
Landform (hillslone, terrace, etc.	1: hillsloge Local re	lief (concave, convex, non	e): Convex	Slope (%	): 1-2 %
Subsection (LDD or MLDA): LRI	R-R Lat: 42,4310	XO2 Long:	79.133887	Datum: N/	AD 83
		Long.	NIM/L classification	ion: Velc.	(
	ville Silt Loam				<u>,</u>
	ns on the site typical for this time of year?	,			
Are Vegetation No., Soil No.	O_, or Hydrology  ○ O_ significantly distu	rbed? Are "Normal	Circumstances" pro	esent? Yes 🗶	No
Are Vegetation 20, Soil 2	<u>O</u> , or Hydrology <u>NO</u> naturally problem	natic? (If needed, e	xplain any answers	in Remarks.)	
SUMMARY OF FINDING	S – Attach site map showing sa	mpling point locatio	ns, transects,	important featu	res, etc.
Hydrophytic Vegetation Preser	nt? Yes 乂 No	is the Sampled Area	v.		
Hydric Soil Present?	Yes × No	within a Wetland?	Yes <u> </u>	<del>-</del>	
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland	Site ID: ಬಲ್	Tland 1960	5
	procedures here or in a separate report.)				
Pem	portion of wotland	A605			
HYDROLOGY					
Wetland Hydrology Indicator	rs:		Secondary Indicat	ors (minimum of two	required)
Primary Indicators (minimum o	of one is required; check all that apply)		Surface Soil 0	Cracks (B6)	
Surface Water (A1)	Water-Stained Leav	ves (B9)	∠ Drainage Pati		
High Water Table (A2)	Aquatic Fauna (B13	3)	Moss Trim Lir		·
Saturation (A3)	Marl Deposits (B15			Vater Table (C2)	
Water Marks (B1)	Hydrogen Sulfide C		Crayfish Burn		
Sediment Deposits (B2)	******	eres on Living Roots (C3)		sible on Aerial Imager	y (C9)
Drift Deposits (B3)	Presence of Reduc			ressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduc		Geomorphic		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aqui	phic Relief (D4)	
Inundation Visible on Aeri		emarks)	FAC-Neutral		
Sparsely Vegetated Conc	ave Surface (B8)		Z FAC-Neutral	Test (DO)	
Field Observations:	Yes No X Depth (inches):				
Surface Water Present?					
Water Table Present?	Yes No _X Depth (inches):	" Metland	Uvdrology Drasan	t? Yes <u>×</u> N	•
Saturation Present? (includes capillary fringe)  Describe Recorded Datá (stre	Yes X No Depth (inches): I			tr 165 N	
		, .			
Remarks:					

**VEGETATION** – Use scientific names of plants.

Sampling Point: DP- 680 Absolute Dominant Indicator Tree Stratum (Plot size: 30' **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species 100 That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: 15' FACW species x 2 = \_\_\_ FAC species \_\_\_\_ \_\_\_\_ x3 = \_\_\_\_ 1. DOT Applicable FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% \_\_\_\_\_\_\_ = Total Cover 3 - Prevalence Index is ≤3.0¹ Herb Stratum (Plot size: \_\_\_\_\_5' ) 4 - Morphological Adaptations (Provide supporting Puckern auren 15 yes FACH data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 15 Yes OBL <sup>1</sup>Indicators of hydric soil and wetland hydrology must Galium Boreale 15 Yes FAC be present, unless disturbed or problematic. Cornus amount 10 NO FACE **Definitions of Vegetation Strata:** Cornus alba 10 NO FACW Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Orocley Sensibilis 10 NO FACE Rosa multiflora 5 NO FAC Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Raphoculus acris 5 NO FAC 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 100 = Total Cover 301 Woody Vine Stratum (Plot size: 1. not Applicable **Hydrophytic** Vegetation Yes No \_\_\_\_ Present? C = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the	indicator	or confirm	the absence o	of indicators.)
Depth	Matrix			x Feature	s	•		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup> _	<u>Texture</u>	Remarks
0"-14"	2.542,511	90	7.592414	10	<u> </u>	PLIM	ろエレ	
			<del></del>					
<del></del>	*							
							<del></del>	
				***				
			<del></del>					
<del></del>					·			
		<del></del>						
					-		3	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Solls <sup>3</sup> :
Histosol			Polyvalue Belo		e (S8) ( <b>LR</b>	RR,		fuck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B			. D.A. 4.40D\		Prairie Redox (A16) (LRR K, L, R)
	stic (A3)		Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky I			(, L)		turface (S7) (LRR K, L, M) lue Below Surface (S8) (LRR K, L)
	d Layers (A5)	(644)	Loamy Gleyed		<b>2</b> )			ark Surface (S9) (LRR K, L)
1	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Matri: _★ Redox Dark Su		3			anganese Masses (F12) (LRR K, L, R)
	fucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)
1	Bleyed Matrix (S4)		Redox Depress	•				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)		(NOGOX BOD) OC	3,0,10 (1 0)	,			arent Material (F21)
	Matrix (S6)							shallow Dark Surface (TF12)
	rface (S7) (LRR R, M	ILRA 149E	3)					(Explain in Remarks)
			,					
<sup>3</sup> Indicators o	f hydrophytic vegetat	ion and we	tland hydrology mu	st be pres	sent, unles	s disturbed	or problemation	3.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes 🗶 No
Remarks:						<del></del>		
,								
1								

Project/Site: Ball Hill Wind Project City/C	county: Chautauqua County Sampling Date: 5/24/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-68(
Investigator(s): B. V. 275 Section	
	ief (concave, convex, none): Convex Slope (%): Z-416/6
Subregion (LRR or MLRA): LRR-R Lat: 42.4308	72 Janes - 79,133864 Datum NAD 83
Soil Map Unit Name: Bust S. 1+ Louis , 3 to 8%	STORGE NIMI electification: Lt PL c - 1
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation No., Soil No., or Hydrology NO. significantly distur	
Are Vegetation NO, Soil NO, or Hydrology NO naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No	Is the Sampled Area within a Wetland? Yes No 🔀
Hydric Soil Present? Yes No 🗶	
Wetland Hydrology Present?  Yes No X  Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
upland pase Point For Wat	1cmd A605.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Oc	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Oxidized Rhizospher Drift Deposits (B3) Presence of Reduce	
	on in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No _X' Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	

	Absoluto	Dominant	Indicator	<u> </u>
Tree Stratum (Plot size: 30')	% Cover	Species?		Dominance Test worksheet:
1. not Applicable				Number of Dominant Species That Are OBL FACW or FAC:
•				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
	-			
6	<del></del>			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	_ 0	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. DOT POPLICABLE				FAC species x 3 =
				FACU species x 4 =
2	<del></del> .			UPL species x 5 =
3				Column Totals: (A) (B)
4				(b)
5.				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	_	= Total Cov		<u></u> ✓2 - Dominance Test is >50%
ا سے		_ Total Cov	.ei	3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size: 5')	<b>~</b> 2 .	Vice	EV.	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Galina Doreale				data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
2. Muhlenbergia Schrebert				1 Toblematic Hydrophytic Vegetation (Explain)
3. Dactylis glomerata				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Ambrosia artemisiidi	c <u>. 10</u>	No	FACL	be present, unless disturbed or problematic.
5. Plantago lanceolata	10	_ MO	FACL	Definitions of Vegetation Strata:
6. Taraxacum officinale				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Enthamia graminifolia	- 20	10.4	-640	Could not book Manda de plante lace they C. C. DDI.
8. Solidayo Raigosa		<u> N5</u>	FAC	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11	<del></del>			Woody vines - All woody vines greater than 3.28 ft in
12		<del>, , , , , , , , , , , , , , , , , , , </del>		height.
<b>7</b> /	100	_ = Total Cov	/er	
Woody Vine Stratum (Plot size:)				
1. no T Applicable				
2				Hydrophytic Vegetation
				Present? Yes X No
3				,
3				
4	0	= Total Co		

301L	1 /1	. 41	L		-dla-4		the absence of	f Indicators	. \
	ription: (Describe t	o the dept				or contirm	rue spseüce c	n maicators	••1
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type <sup>1</sup>	_Loc²	Texture		Remarks
0"12"	2.5 4 7.5/1						SIL		
12"-18"	2,542,51	95%	1042416	5%	C	<u>~</u>	SIL		
	254412		7 L	100/0	0	<u>~</u>	SIL		
			1092416	5%	C	<u></u>			
		<del></del>							
				****					
¹Type: C=C	oncentration, D=Depl	etion, RM	Reduced Matrix, M	S=Masked	Sand Gr	ains.			ining, M=Matrix.
Hydric Soil									natic Hydric Soils³:
Histosol			Polyvalue Belo		(S8) ( <b>LR</b>	RR,			LRR K, L, MLRA 149B) x (A16) (LRR K, L, R)
	pipedon (A2) istic (A3)		MLRA 149B Thin Dark Surf		.RR R. M	LRA 149B			or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky				Dark S	urface (S7)	(LRR K, L, M)
	d Layers (A5)	44.44	Loamy Gleyed		)				urface (S8) (LRR K, L) (S9) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Matri						asses (F12) (LRR K, L, R)
1 —	Mucky Mineral (S1)		Depleted Dark				Piedm	ont Floodpla	in Soils (F19) (MLRA 149B)
Sandy (	Gleyed Matrix (S4)		Redox Depres	sions (F8)					i) (MLRA 144A, 145, 149B)
1	Redox (S5)							arent Materia Shallow Dark	ai (F21) : Surface (TF12)
	d Matrix (S6) urface (S7) ( <b>LRR R, N</b>	ILRA 149I	<b>B</b> )					(Explain in F	
3Indicators	of hydrophytic vegetal	ion and w	etland hydrology mi	ıst be nres	ent, unles	ss disturbe	d or problemati	c.	
	Layer (if observed):		Suaria Hydrology IIIC	or no bigg	one, armo				
Type:								_	<b>x</b>
Depth (ir	nches):						Hydric Soi	Present?	Yes No _X
Remarks:									
,									
									•
I									

Project/Site: Ball Hill Wind Project City/Co	punty: Chautauqua County Sampling Date:5) Հերի է բ
	State: NY Sampling Point; DP-68-2
Investigator(s): B. V. 255 Section	
Landform (hillslope, terrace, etc.): TOL of Slope Local relie	
Subregion (LRR or MLRA): LRR-R Lat: 42.43 illia	1 Jane: -79,133883 Datum: NAD 83
	NWI classification: じりゅっぴ
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	
Are Vegetation $\begin{array}{c} \sim c$ , Soil $\begin{array}{c} \sim c \\ \sim c $	· ·
•	
Are Vegetation <u>~</u> , Soil <u>N. O</u> , or Hydrology <u>N. O</u> naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes 😾 No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: Watter 1 13605
Remarks: (Explain alternative procedures here or in a separate report.)	
PSS Deta Station for we	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave:	
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
✓ Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odd	
Sediment Deposits (B2)  Yater Marks (B1)  Sediment Deposits (B2)  Y Oxidized Rhizosphere	
Drift Deposits (B3) Presence of Reduced	, ,
Algal Mat or Crust (B4) Recent Iron Reductio	n in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	
Sparsely Vegetated Concave Surface (B8) Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present?  Yes X No Depth (inches): 5"	
Saturation Present? Yes X No Depth (inches): O	1
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

	Absoluto	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>        ろ</u> 。/		Species?		Dominance Test worksheet:
1. POT Applicable				Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
				That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cov	/or	OBL species x1 =
15'		- Total Co	V G1	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')	•		_	FAC species x3 =
1. Corons alba				FACU species x4 =
2. Corons amomum	20	Yes	EDEM	UPL species x 5 =
3. Rosa multiflora	10	20	FAC	Column Totals: (A) (B)
4				Column Totals (A) (B)
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6			·	
7				1 - Rapid Test for Hydrophytic Vegetation
	60	= Total Co	ver	<del></del>
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0¹
1. Oroclea Sepsibilis	45	Ves	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	15	yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				. , ,
3. Viola spp.		Yes		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Cornus amamum		20	EACH	
5. Mentions copensis		<u>~~</u>	FACW	Definitions of Vegetation Strata:
6. Rammoulus acris	5	NO	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in, DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
10	<del></del>	***************************************		size, and woody plants less than 3.28 ft tall.
11			<del></del>	Woody vines – All woody vines greater than 3.28 ft in
12				height.
	100	= Total Co	ver	
Woody Vine Stratum (Plot size: 30')				
1. NOT OPPLICABLE				
, ,	,			Hydrophytic
2				Vegetation Present? Yes K No
3				Present? Yes X No
4				
	_6_	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)	ć.		<u> </u>
1				

Profile Desc	ription: (Describe t	to the dept	h needed to docui	ment the ir	ndicator	or confirm	the absence	of indicator	rs.)	
Depth	Matrix			x Features		•			_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup> _	<u>Texture</u>		Remarks	
0"-14"	2.572.51	90%	7.542414	10%	<u> </u>	ALIM	SIL			<del></del>
			•							
							<del></del>			
		<del></del>								
			<del></del>							
					<del></del>					
			<del></del>						<del></del>	<del></del>
									·	
¹Type: C=Cc	oncentration, D=Depl	letion RM=	Reduced Matrix M	S=Masked	Sand Gr	ains	<sup>2</sup> l ocation	: PL=Pore	Lining, M=Matr	ix
Hydric Soil I			TOUGOUG MAINA, IM	- masked	Juliu Ol	will 101			natic Hydric S	
Histosol			Polyvalue Belo	w Surface	(S8) ( <b>LR</b>	R R,	2 cm N	luck (A10) (	LRR K, L, ML	RA 149B)
	nipedon (A2)		MLRA 1498						ox (A16) ( <b>LRR</b>	
Black His			Thin Dark Surf						or Peat (S3) (L	
	n Sulfide (A4)		Loamy Mucky			(, L)			( <b>LRR K, L, M</b> ) Surface (S8) ( <b>L</b> .	
	l Layers (A5) I Below Dark Surface	a (Δ11)	Loamy Gleyed Depleted Matri		,				(S9) (LRR K,	
	ark Surface (A12)	5 (ATT)	Redox Dark Su						Aasses (F12) (I	
	lucky Mineral (S1)		Depleted Dark						ain Soils (F19)	
	ileyed Matrix (S4)		Redox Depres	sions (F8)					6) (MLRA 144 <i>)</i>	A, 145, 149B)
	ledox (S5)							arent Mater		2)
	Matrix (S6) rface (S7) (LRR R, N	AI DA 4400	<b>)</b> \					nallow Dari (Explain in I	k Surface (TF1)	2)
Dark Sur	nace (S7) (EINIX IX, II	ILIVA 1430	•)				00101	(Explain in i	tomanto	
<sup>3</sup> Indicators of	f hydrophytic vegetat	ion and we	tland hydrology mu	st be prese	ent, unles	s disturbed	or problemation	э.		
Restrictive I	_ayer (if observed):			·						
Type:									C a	
Depth (inc	ches):						Hydric Soil	Present?	Yes 🔀	No
Remarks:							<u></u>			
Ì										
,										

	City/County: Chautauqua County Sampling Date: 512416
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-683
Investigator(s): B. Vizas	Section, Township, Range: TOwn of Villency
Landform (hillslope, terrace, etc.): toe of slope Loc	cal relief (concave, convex, none): Concave Slope (%): 0 - 1 %
Subregion (LRR or MLRA): LRR-R Lat: 42.43	51973 Long: -79.133913 Datum: NAD 83
Soil Man Unit Name: Chantanana Silt Loan 3 to 8	NWI classification: LP1a-J
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes × No (If no. explain in Remarks.)
Are Vegetation $20$ , Soil $20$ , or Hydrology $20$ significantly	<b>1</b> .
Are Vegetation <u>~ O</u> , Soil <u>~ O</u> , or Hydrology <u>~ O O</u> naturally pro	polematic? (If needed, explain any answers in Nemarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: wetland 14606
Remarks: (Explain alternative procedures here or in a separate repo	rt.)
PSS Data Station for	Also
P33 1) W. S. W. (10)	W541.42 1.100E
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Water-Stained	
X High Water Table (A2) Aquatic Fauna	
Saturation (A3) Marl Deposits	
Water Marks (B1) Hydrogen Sulf	ide Odor (C1) Crayfish Burrows (C8)
	ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of R	
	eduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Sur	
Inundation Visible on Aerial Imagery (B7) Other (Explain	in Remarks) Microtopographic Relief (D4)  ✓ FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	Z PAO-Medital Test (DO)
Field Observations:  Surface Water Present?  Yes No Depth (inches	٥)،
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	tos, previous inspections), if available:
Remarks:	
Tomano.	

	Absolute	Dominant	Indicator	Danilla van Taat was kahaati
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	<u>Status</u>	Dominance Test worksheet:
1. not Applicable				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				That Are OBL, FACW, OF FAC.
2				Total Number of Dominant
3				Species Across All Strata: (B)
4.				Percent of Dominant Species
-				That Are OBL, FACW, or FAC: (A/B)
5	*			
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		
Sapling/Shrub Stratum (Plot size: 15')		= Total Cov	/ei	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Cocous amonum	40	405	FACU	FAC species x 3 =
2. Froxinus pennsylvanica				FACU species x 4 =
2. The penal vance			<del>PHC</del> W	UPL species x 5 =
3				Column Totals: (A) (B)
4				(5)
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	<del></del>			
	45	= Total Cov	/er	★ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 )				3 - Prevalence Index is ≤3.0¹
1. opoclea Sensibilis	40_	Yes	FACN	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Equisetum palustre				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Corrus amomum			FACW	'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solidago Rugosa	10		<u>Enc</u>	be present, unless disturbed of problematic.
5. Tox: codendron radicans	10	40	FAC	Definitions of Vegetation Strata:
a Suither is an in the	10	NO		W
6. Enthania graminitalia	<del></del>	100	Inc	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				at breast height (bbit), regulation of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				W. 1
12.				Woody vines - All woody vines greater than 3.28 ft in height.
	100	= Total Cov		INIGH.
/		= Total Cov	ver	
Woody Vine Stratum (Plot size:)				
1. NOT APPLICABLE				
				Hydrophytic
2				Vegetation   Present? Yes X No
3				Present? Yes No
4				
	0	= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
The manual priority manual trains of the department	,			

Profile Desc	ription: (Describe to	o the dept	h needed to docum	ent the ir	ndicator	or confirm 1	the absence o	of indicators	s.)	
Depth	Matrix			C Features	T 1	12	Texture_		Remarks	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	_Loc²			Remarks	
0'- 14"	2.542.51	8006	7.54R416	10%	<u> </u>	PL/m	SEL		<del></del>	
						<del></del>				
										-
							_			
<del></del>		<del></del>					<del></del>			
	<del> </del>									
1Tuno: C=0:	oncentration, D=Depl	etion PM		S=Masker	Sand G	ains.	2Location	PL=Pore L	ining, M=Matr	ix.
Hydric Soil		enon, Mivi-	- Neduced Matrix, Mi	- IMAGNOC	, Junio Gi	WIIIO.			natic Hydric S	
Histosol			Polyvalue Belov	w Surface	(S8) ( <b>LR</b>	R R,			LRR K, L, ML	
	oipedon (A2)		MLRA 149B		, ., ,	•	Coast	Prairie Redo	ox (A16) ( <b>LRR</b>	K, L, R)
	stic (A3)		Thin Dark Surfa	ace (S9) (I					or Peat (S3) (L	
	en Sulfide (A4)		Loamy Mucky			<b>(, L</b> )			(LRR K, L, M)	
	d Layers (A5)	- /4445	Loamy Gleyed		2)				iurface (S8) (L (S9) (LRR K,	
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Matrix <u>→</u> Redox Dark Su		1				(33) (LIKK K, fasses (F12) (I	
	Aucky Mineral (S1)		Depleted Dark							(MLRA 149B)
_	Sleyed Matrix (S4)		Redox Depress				Mesic	Spodic (TA6	6) ( <b>MLRA 144</b>	
	Redox (S5)		•					arent Materi		-1
	l Matrix (S6)								Surface (TF1	2)
Dark Su	rface (S7) (LRR R, N	/ILRA 149	<b>B</b> )				Other	(Explain in F	temarks)	
3Indicators o	f hydrophytic vegetat	tion and w	etland hydrology mu	st be pres	ent, unles	ss disturbed	or problematic	э.		
	Layer (if observed):			- 1.55	,					
Type:	<u> </u>									
Depth (in	ches):						Hydric Soil	Present?	YesX	No
Remarks:	,						<u> </u>			
,										

Project/Site: Ball Hill Wind Project City/C	County: Chautaugua Co	ounty	Sampling Date: 5/24/16
Applicant/Owner: Ball Hill Wind Energy, LLC	Journey.	State: NY	Sampling Point: DP-681
Investigator(s): B. V. 275 Section			
Landform (hillslope, terrace, etc.): H. N. Stope Local re			
Subregion (LRR or MLRA): LRR-R Lat: 42.4317	74	79.13390	) Datum: NAD 83
Subregion (LRR or MLRA): Lat: 42.431,	Long:	11100 10	Datum, 10 L
Soil Map Unit Name: Bust. S. 1+ Loam, 3+08%			
Are climatic / hydrologic conditions on the site typical for this time of year? $^{\backprime}$			
Are Vegetation <u>VC</u> , Soil <u>~O</u> , or Hydrology <u>NO</u> significantly distu	rbed? Are "Normal (	Circumstances" p	resent? Yes X No
Are Vegetation <u>roo</u> , Soil <u>roo</u> , or Hydrology <u>roo</u> naturally problem	atic? (If needed, ex	oplain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	npling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area		
Hydric Soil Present? Yes No 🔀	within a Wetland?	Yes	No ≠
Wetland Hydrology Present? Yes No X	If yes, optional Wetland	Site ID:	
Remarks: (Explain alternative procedures here or in a separate report.)			
Mand Deta point Fre	vetard 1460E	?	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1) Water-Stained Leav	res (B9)	Drainage Pa	itterns (B10)
High Water Table (A2) Aquatic Fauna (B13		Moss Trim L	ines (B16)
Saturation (A3) Marl Deposits (B15)	· .	Dry-Season	Water Table (C2)
Water Marks (B1) Hydrogen Sulfide O		Crayfish Bur	
	• , ,		/isible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	* *		Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduct			Position (D2)
Iron Deposits (B5) Thin Muck Surface		Shallow Aqu	aphic Relief (D4)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re		FAC-Neutra	
Sparsely Vegetated Concave Surface (B8)		TAO-Neutra	1 1031 (20)
Field Observations:  Surface Water Present?  Yes No Depth (inches):			
Water Table Present?  Yes No _X Depth (inches):			
	'' Wetland H	lydrology Prese	nt? Yes No <u>×</u>
Saturation Present? Yes X No Depth (inches): judiculdes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	'		
Remarks:			

	Absoluto	Dominant	Indicator	
Tree Stratum (Plot size: 30')	Absolute % Cover	Species?		Dominance Test worksheet:
				Number of Dominant Species
1. Princes seration	···		EDCW	That Are OBL, FACW, or FAC: (A)
2. Acer Saccharum	<u> 20</u>	<u> Yes</u>	FACL	Total Number of Dominant
3. Fagus granditolia	20	Yes	FACL	Species Across All Strata: (B)
4.				Parant of Dominant Species
				Percent of Dominant Species That Are OBL, FACW, or FAC: 12.5 (A/B)
5				
6		<del></del>		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	75	= Total Cov	/er	OBL species x1 = c
Sapling/Shrub Stratum (Plot size: \\S'			. •.	FACW species 10 x2= Zc
	وفدر		•	FAC species 10 x3 = 30
1. Fagus grandifolia	70	<u>yes</u>	FACH	FACU species 160 x4= 640
2. Acer Saccharum	20	Yes	FAGU	
3				UPL species x 5 =
				Column Totals: (A)(G (B)
4				Prevalence Index = B/A = 3.83
5				Frevalence Index - BIA - 3 : 6.3
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov		2 - Dominance Test is >50%
ا ہے		- 10tai Co	/ <del>U</del> I	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:5 /)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Podophyllum peltatum	<u>25</u>	Yes	FACH	data in Remarks or on a separate sheet)
2. Erythronium rostratum	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Acer Cubrum		Yes	FAL	No disease of bonders will and continued bonders.
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Ace- Sacchann		<u> </u>	FACU	
5. Cornus arramum		170	FACL	Definitions of Vegetation Strata:
6. Frations pennsylvanica	5_	20	FACH	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Rubus allegheniensis	5	No	FACE	at breast height (DBH), regardless of height.
<b>,</b>		100	1 1300	Carling/about 16/andy plants less than 2 to EDU
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
	<del></del>	******		Woody vines - All woody vines greater than 3.28 ft in
12				height.
	<u>65</u>	= Total Co	ver	
Woody Vine Stratum (Plot size: 38')				
1. not Applicable				
				Hydrophytic
2				Vegetation
3				Present? Yes No
4				
	D	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate				
Transaction (installed princip manufactor) of an a departure	01100117			

Profile Desc	ription: (Describe	to the dep	th needed to docu	nent the ir	dicator	or confirm	the absence	of indicators.)	
Depth	Matrix Color (moist)	0/	Redo Color (moist)	x Features	Type <sup>1</sup>	L 00 <sup>2</sup>	Texture	Rema	rke
(inches)		<u>%</u>	Color (moist)		_ i ybe	LUC	SEL	Kenia	INS
4"-14"	1042313		324241				5IL		
14"20"			104RU16			<u>~~</u>	<u> </u>		
14760	2.5y 413	40	7.542416	10%		$\sim$			
		<del></del>							
		· <del></del>							
									·
			<u> </u>						
¹Type: C=C	oncentration, D=Dep	letion RM:		S=Masked	Sand Gr	ains	<sup>2</sup> l ocation	: PL=Pore Lining, M	=Matrix
Hydric Soil		ionori, i divi-	-reduced Mainx, M	<u>O-Masked</u>	Ourid Or	шпо.		for Problematic Hy	
Histosol	` '		Polyvalue Belo		(S8) ( <b>LR</b>	RR,		luck (A10) (LRR K,	·
Histic Ep	oipedon (A2)		MLRA 149B Thin Dark Surf		DD D M	I DA 1/10R)		Prairie Redox (A16) Iucky Peat or Peat (	
	n Sulfide (A4)		Loamy Mucky					surface (S7) (LRR K	
	Layers (A5)		Loamy Gleyed		)			lue Below Surface (	
	l Below Dark Surface ark Surface (A12)	e (A11)	Depleted Matri Redox Dark St					ark Surface (S9) ( <b>LF</b> anganese Masses (	• •
	lucky Mineral (S1)		Depleted Dark		7)				(F19) (MLRA 149B)
	ileyed Matrix (S4)		Redox Depres	sions (F8)				Spodic (TA6) (MLR	A 144A, 145, 149B)
1	edox (S5) Matrix (S6)							arent Material (F21) Shallow Dark Surface	(TF12)
	rface (S7) ( <b>LRR R, N</b>	ALRA 149E	3)					(Explain in Remarks	
31414				-4 h		المصطفر بقطامه	or problematic		
	f hydrophytic vegetal -ayer (if observed):		etiano nyorology mu	st be prese	ent, unies	s disturbed	or problematic	<b>3.</b>	
Type:		·							
Depth (inc	ches):						Hydric Soil	Present? Yes _	No <u>X</u>
Remarks:									
,									

Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 5/24/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 687
	on, Township, Range: Town of V. News
Landform (hillslope, terrace, etc.): terrace   floodplood Local rel	
Subregion (LRR or MLRA): LRR-R Lat: 42.433	959 - 79 130 884 patricipinal NAD 83
•	
Soil Map Unit Name: Valo, 5 grandly 5, 17 loam, 3	NWI classification: Unand
Are climatic / hydrologic conditions on the site typical for this time of year?	'es ∑ No (If no, explain in Remarks.)
Are Vegetation NO, Soil NO, or Hydrology CO significantly distur	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation <u>ND</u> , Soil <u>ND</u> , or Hydrology <u>ND</u> naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present? Yes Y	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: Wetland AGOS
Remarks: (Explain alternative procedures here or in a separate report.)	
Figgal Ole: I we though come	ecited with the confluence earns (Streams AS31 and A532)
THOSE PIECE	(, , , , , , , , , , , , , , , , , , ,
of two power of str	eams (Streams ADDI and 1932)
•	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	·
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Oc	
Sediment Deposits (B2) Oxidized Rhizosphe	
Drift Deposits (B3) Presence of Reduce	. at
Algal Mat or Crust (B4) Recent Iron Reducti	
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	¥ FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	н
Water Table Present? Yes ★ No Depth (inches): (-	
Saturation Present? Yes <u>'</u> No Depth (inches): C	wettand hydrology Present? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
Tomano.	

2.1	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Deminant Species
1. not Applicable		That Are OBL, FACW, or FAC:(A)
2.		
		Total Number of Dominant Species Across All Strata:  (B)
3		Species Across Air Strata.
4		Percent of Dominant Species
		That Are OBL, FACW, or FAC:(A/B)
6.	•	
		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1. pcT Applicable		FAC species x 3 =
•		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals: (A) (B)
4		Column Totals (A) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
7		∠ 2 - Dominance Test is >50%
<b>-</b> /	= Total Cover	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5')  1. Grocles Sensibilis	45 Yes FACE	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
l		data in Remarks or on a separate sheet)
2. Galium boreale	To YES FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Carex gynardra	15 NO OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Froxinus pennsylvanica		be present, unless disturbed or problematic.
5. Rosa meltistera		Definitions of Vegetation Strata:
• • • • • • • • • • • • • • • • • • •		
6,		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		at breast height (DBH), regardless of height.
8		Sapling/shrub – Woody plants less than 3 in. DBH
		and greater than or equal to 3.28 ft (1 m) tail.
9		Herb – All herbaceous (non-woody) plants, regardless of
10		size, and woody plants less than 3.28 ft tall.
11		W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12.		Woody vines – All woody vines greater than 3.28 ft in height.
	loc = Total Cover	norga.
3-1	- TOTAL COVE	
Woody Vine Stratum (Plot size: 30)		
1. not Applicable		
2		Hydrophytic
		Vegetation Present? Yes No
3		
4		
	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)	
<u> </u>		
I and the second		

Profile Desc	cription: (Describe t	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of	findicators.)	
Depth	Matrix		Redo	x Features	<u>.</u>	•			
(inches)	Color (moist)	%	Color (moist)	%		_Loc <sup>2</sup>	Texture		
0-16	2,542,5/1	85	2.545/1		0	<u>m</u>	<u>SL</u> _		
			10y2 412	_5_	0	<u>~</u>			
<del></del>									
				<del></del>					
<del></del>			<del></del>						
·									
	oncentration, D=Depl	letion, RM	=Reduced Matrix, M	S=Masked	Sand G	ains.		PL=Pore Lining, M=Matrix.	
Hydric Soil			51		(00) (LD	- n		or Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1) pipedon (A2)		Polyvalue Below		(S8) (LR	KK,		ıck (A10) ( <b>LRR K, L, MLRA 149B</b> ) rairie Redox (A16) ( <b>LRR K, L, R</b> )	
	istic (A3)		Thin Dark Surfa	•	LRR R, M	LRA 149B		ucky Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		Loamy Mucky			(, L)		rface (S7) (LRR K, L, M)	
	d Layers (A5)	- (844)	Loamy Gleyed		?)			ue Below Surface (S8) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Su		ı			rk Surface (S9) ( <b>LRR K, L</b> ) nganese Masses (F12) ( <b>LRR K, L, R</b> )	
l .	Mucky Mineral (S1)		Depleted Dark					nt Floodplain Soils (F19) (MLRA 149B)	
	Gleyed Matrix (S4)		Redox Depress	sions (F8)				podic (TA6) (MLRA 144A, 145, 149B)	
	Redox (S5)							rent Material (F21)	
	l Matrix (S6) ırface (S7) ( <b>LRR R, N</b>	ILRA 149	B)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
	f hydrophytic vegetat		etland hydrology mu	st be pres	ent, unles	s disturbed	l or problematic.		
	Layer (if observed):								
Type:	ahaa):		•				Hydric Soil F	Present? Yes K No No	
Depth (in-	cnes)				~····		riyuric 30ii r	resoluti res X No	
ixemans.									
,									
		-							

Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 5) 24) (
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 68.6
	Section, Township, Range: TOWN OF VINEROUM
Investigator(s): \( \square\) \( \square\) \( \square\)	Section, Township, Range:
Landform (hillslope, terrace, etc.): + Cocopic, N Loc	cal relief (concave, convex, none): F1c Slope (%): 6%
Subregion (LRR or MLRA): LRR-R Lat: 42. 73	33860 Long: -79.130922 Datum: NAD 83
Soil Map Unit Name: Yalois gravelly Silt lower	NWI classification: LPIAnd
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No (If no, explain in Remarks.)
Are Vegetation No, Soil 20, or Hydrology No significantly	
Are Vegetation ~ C, Soil ~ C, or Hydrology ~ naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ⊀	Is the Sampled Area
Hydric Soil Present? Yes No >>	within a Wetland? Yes No 🗡
Wetland Hydrology Present? Yes No 'x	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate repor	
	1
ipland Data point for u	Detical A608
	·
4	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained	Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna	
Saturation (A3) Marl Deposits (	
Water Marks (B1) Hydrogen Sulfi	
	ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Re	
1 <del></del> • · ·	eduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Sur	
Inundation Visible on Aerial Imagery (B7) Other (Explain	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No _< Depth (inches	s): Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Bosonibo (1000.100 para (1000.100 para )	
Remarks:	

Tree Stratum (Plot size:ろ)	Absolute		Indicator	Dominance Test worksheet:
,		Species?		Number of Dominant Species Z_
1. Tsuga Canadensis	_55_	yes	FALL	That Are OBL, FACW, or FAC: (A)
2. Betala alleghanicosis		yes	FAC	Total Number of Dominant
3. Acer Saccharum	15	<u> </u>	FACL	Species Across All Strata: (B)
4.				Percent of Dominant Species
5			-	Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
,	90	= Total Co	ver	OBL species O x1 = O
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =O
1. OStrya Visginiana	20	Yes	FACH	FAC species 30 x3= 70
2. Tsuga considersis			FACH	FACU species 120 x4 = 4180
· · · · · · · · · · · · · · · · · · ·		No		UPL species <u> </u>
3. Aper Saucherum			FACH	Column Totals: 170 (A) 676 (B)
4				
5				Prevalence Index = B/A = 3,94
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	~ c			2 - Dominance Test is >50%
· · · · · · · · · · · · · · · · · · ·	22	= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5')				4 - Morphological Adaptations¹ (Provide supporting
1. Erythronium rostratum	20	Y.05	LPL	data in Remarks or on a separate sheet)
2. TSuga Canadansis			FACH	Problematic Hydrophytic Vegetation¹ (Explain)
3. Acer negundo			FAL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Polystichum acrostiched				be present, unless disturbed or problematic.
· · · · · · · · · · · · · · · · · · ·			FACH	
5			PACA	Definitions of Vegetation Strata:
-				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter
56				Definitions of Vegetation Strata:
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
5				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
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in
5				Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in
5	45	= Total Co	vver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in
5		= Total Co	vver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	vver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	vver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	vver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5	<u>45</u>	= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.
5		= Total Co	ver	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type <sup>1</sup> Loc <sup>2</sup> Texture Remarks	
10"-20" 7.54414 100 SL	
	<del></del> '
	;
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.  Indicators for Problematic Hydric Science Sci	
Tyund den malatate.	
Histosol (A1)	-
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LF	RR K, L, R)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M)  Dark Surface (S7) (LRR K, L, M)	יו אמני
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LR L. Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L.	
Depicted Below Bank Odnace (A17) Depicted Matrix (1-6) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (L	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A Sandy Redox (S5) Red Parent Material (F21)	, 145, 149B)
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12	)
Dark Surface (S7) (LRR R, MLRA 149B)  Other (Explain in Remarks)	,
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):	
Type:	
Depth (inches): Hydric Soil Present? Yes	No <u> </u>
Remarks:	

Project/Site: Ball Hill Wind Project Cit	y/County: Chautauqua County Sampling Date: 5)なり。
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point; DP-689
Investigator(s): B. V.275 Se	
	relief (concave, convex, none): Concave Slope (%): 6%
Landform (milistope, terrace, etc.). Using the Local	S15   Long: -79.136629   Datum: NAD 83
Subregion (LRR or MLRA): Ltd. 42,400	Datum: 10 10 10 10 10 10 10 10 10 10 10 10 10
Soil Map Unit Name: Chantangen 5:14 lown	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation $N_{\mathcal{C}}$ , Soil $N_{\mathcal{C}}$ , or Hydrology $N_{\mathcal{C}}$ significantly dis	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation (120), Soil (120), or Hydrology (120) naturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesX No	is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X	If yes, optional Wetland Site ID: Wetland Abog
Remarks: (Explain alternative procedures here or in a separate report.)	
Hernlock Depressioned wetl	and
Hermi Ocase Assistant of the	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	eaves (B9) Drainage Patterns (B10)
─────────────────────────────────────	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B1	15) Dry-Season Water Table (C2)
Water Marks (B1)  — Hydrogen Sulfide	
	oheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Redu	
	uction in Tilled Soils (C6)
Iron Deposits (B5) Thin Muck Surfac	• •
Inundation Visible on Aerial Imagery (B7) Other (Explain in Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	1A04edital rost (50)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	7"
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	

VEGETATION - Ose scientific fiames of plants.	·			Sampling Forms
Tree Stratum (Plot size:'3 0 ')	Absolute	Dominant		Dominance Test worksheet:
<b>!</b>		Species?	_Status	Number of Dominant Species >
1. Tsuga Canadensis		105	FACH	That Are OBL, FACW, or FAC: (A)
2. Fraxinus Penasylvanica	5_	h0	PACW	Total Number of Dominant
3				Species Across All Strata:(B)
				Described Described
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	<del></del>		·	
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	45	= Total Cov	er Ì	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
	20	V.c	<i>-</i>	FAC species x 3 =
1. tilmus americana			FIACH	FACU species x 4 =
2. TShga Canadensis	10	Yes	FACH	UPL species x 5 =
3				
4.				Column Totals: (A) (B)
		•		Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	30	= Total Cov	/er	× 2 - Dominance Test is >50%
Herb Stratum (Plot size:5 ')				3 - Prevalence Index is ≤3.0¹
	<b>7</b> 7 -	Yes	Cocu	4 - Morphological Adaptations¹ (Provide supporting
1. Impatiens copensis				data in Remarks or on a separate sheet)
2. Onoclea Sersibilis		425	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. himns americana	<u>S</u>	No	FACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Arisaerra triphyllim	5	120	FAC	be present, unless disturbed or problematic.
5. Osmunda Cimmimonea		No	FACIL	Definitions of Vegetation Strata:
l	<del></del>	•		
6. Thelypteris palustris		NO.	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7	<del></del>			at breast neight (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb - All herbaceous (non-woody) plants, regardless of
	<del></del>			size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12	<del></del>			height.
	50	= Total Co	veг	
Woody Vine Stratum (Plot size: 30)				
1. not Applicable				
	<del></del>			Hydrophytic
2				Vegetation
3				Present? Yes No
4			<del> </del>	
	$\circ$	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
	•			
Hemlack Damite	+. 0 6	Co		
France Demine	Vical V	10		
1				

Profile Description: (Describe to the dep	th needed to docum	nent the indicator	or confirm	the absence of Indica	ntors.)
Depth Matrix		k Features			
(inches) Color (moist) %	Color (moist)		Loc <sup>2</sup>	Texture	Remarks
0"-12" mucky Pect					
<u> </u>					
		<del></del>			
			<del></del>		
<sup>1</sup> Type: C=Concentration, D=Depletion, RN	=Reduced Matrix M	S=Masked Sand G	rains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil Indicators:	- Ledwood Manix, IV	C Machine Carre		Indicators for Pro	blematic Hydric Soils <sup>3</sup> :
─────────────────────────────────────	Polyvalue Belo	w Surface (S8) ( <b>LF</b>	RR R.	2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B		·	Coast Prairie F	Redox (A16) (LRR K, L, R)
Black Histic (A3)		ace (S9) ( <b>LRR R, I</b>	ILRA 149B)		eat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Mineral (F1) (LRR	K, L)		S7) (LRR K, L, M)
Stratified Layers (A5)	Loamy Gleyed				ow Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Depleted Matri				ace (S9) (LRR K, L) se Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Redox Dark Su Depleted Dark				dplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Redox Depres				(TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (54)	Trodox Doproo	J. J		Red Parent Ma	aterial (F21)
Stripped Matrix (S6)					Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149	<b>(B</b> )			Other (Explain	in Remarks)
<sup>3</sup> Indicators of hydrophytic vegetation and v	etland hydrology mu	st be present, unle	ess disturbed	or problematic.	
Restrictive Layer (if observed):					
Type:	<del>-</del>			II data On II Dunnan	nt? Yes 🗡 No
Depth (inches):				Hydric Soil Preser	it? res No
Remarks:					
	*				
,					

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: Chautauqua County Sampling Date: 5/24/16 Project/Site: Ball Hill Wind Project \_\_\_ State: NY \_\_\_ Sampling Point; DP- 690 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): B. Viris Section, Township, Range: Town of Villenova Landform (hillslope, terrace, etc.): H. 11 S lo Re Flood Pla ~ Local relief (concave, convex, none): Convex/Flot Slope (%): 0% (%) Subregion (LRR or MLRA): LRR-R Lat: 42. 434393 Long: -79.130735 Datum: NAD 83 Soil Map Unit Name: Chautagers: 1+ loam, 3+6800510200 NWI classification: 101000 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation NO, Soil PO, or Hydrology NO naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Yes \_\_\_\_ No X Yes \_\_\_ No X is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? Wetland Hydrology Present? If yes, optional Wetland Site ID:\_ Remarks: (Explain alternative procedures here or in a separate report.) Wland Date Station for Wetland Abog **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) .\_\_\_ Drainage Patterns (B10) \_\_\_ Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Aquatic Fauna (B13) Moss Trim Lines (B16) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_ Marl Deposits (B15) \_\_ Saturation (A3) \_\_\_ Crayfish Burrows (C8) \_\_\_ Hydrogen Sulfide Odor (C1) Water Marks (B1) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_ Sediment Deposits (B2) \_\_\_ Stunted or Stressed Plants (D1) \_\_\_ Drift Deposits (B3) \_\_\_ Presence of Reduced Iron (C4) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_\_\_ Algal Mat or Crust (B4) \_\_\_ Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) Shallow Aguitard (D3) \_\_\_ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No > Depth (inches): Surface Water Present? Yes \_\_\_\_ No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_ No \_\_\_\_ Yes \_\_\_\_ No \_\_\_ Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30/		Species?		Dominance Test worksheet:
1. TSuga Concidensis				Number of Dominant Species
,				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
5	<del></del>			That Are OBL, FACW, or FAC: (A/B)
6				B
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
/	45	= Total Cov	er	OBL species <u>o</u> x1 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 15'				FACW species C x 2 = C
1 TS400 A. L. Dan	16	Vac	Saci	FAC species x 3 = O
1. TSuga Canadensis		<u> 46.2</u>	PACCI	FACU species 120 x4= 480
2. Fagus grandifolia	10	Yes	EACIN	1
3.	•			UPL species <u>O</u> x 5 = <u>O</u>
				Column Totals: 120 (A) 180 (B)
4				m.,
5				Prevalence Index = B/A = <sup>11</sup> , 당 O
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				1
· •	20	= Total Cov	er	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ')				3 - Prevalence Index is ≤3.0 <sup>1</sup>
( lot size.	_	Mar	C =	4 - Morphological Adaptations (Provide supporting
1. Fogus grandifolia		162	MACH	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				population and a production of productions.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				at Disastribigiti (DD17), regulated of Melgiti.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	-5			neight.
0 - /		= Total Cov	/ег	
Woody Vine Stratum (Plot size: SO')				
1. NOT Applicable				
• • •				Hydrophytic
2				Vegetation
3				Present? Yes No
4.				
	0	T-1-1-0		
		_ = Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			
				ı

Profile Description: (Describe to the de	oth needed to document the indicator or co	firm the absence of indicators.	
Depth Matrix	Redox Features	. Tardina	Domorko
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Log	Texture	Remarks
	freedle 1. Her Present		
0"-8" 10gr 314 100			
8".70" 1098 413 95	2.59514 5% c ~	SI	
	•		
	I=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lin Indicators for Problema	
Hydric Soil Indicators:	Polyvalue Below Surface (S8) (LRR R,		RR K, L, MLRA 149B)
Histosol (A1) Histic Epipedon (A2)	MLRA 149B)	Coast Prairie Redox	- 1
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA	•	Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)	Dark Surface (S7) (L	.RR K, L, M) face (S8) (LRR K, L)
Stratified Layers (A5) Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Polyvalue Below Surface (S	
Thick Dark Surface (A12)	Redox Dark Surface (F6)		sses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	<del></del>	Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	Mesic Spodic (1A6) Red Parent Material	(MLRA 144A, 145, 149B)
Sandy Redox (S5) Stripped Matrix (S6)		Very Shallow Dark S	
Dark Surface (S7) (LRR R, MLRA 149	OB)	Other (Explain in Re	
3		al a dan marklanaskia	
Indicators of hydrophytic vegetation and vegetation	vetland hydrology must be present, unless dist	rbed or problematic.	
Type:			
Depth (inches):	-	Hydric Soil Present?	Yes No <u> </u>
Remarks:			
		1	
,			

Project/Site: Ball Hill Wind Project C	Sity/County: Chautauqua County Sampling Date: 5   כין ויש
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-
Investigator(s): B. V.,2TS	Section, Township, Range: Town of Villanova
	al relief (concave, convex, none):
	1892 Long: -79.131 436 Datum: NAD 83
Soil Map Unit Name: Chantougha S: 1+ Loan 3	to 800 510005 NWI classification: UPI circl
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes X No (If no, explain in Remarks.)
Are Vegetation $\frac{100}{100}$ , Soil $\frac{100}{100}$ , or Hydrology $\frac{100}{100}$ significantly of	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation 120, Soil 120, or Hydrology 120 naturally prof	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland B610
Remarks: (Explain alternative procedures here or in a separate report	
1501a tech Per Wetland	near I with an open field area.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained L	• •
High Water Table (A2) Aquatic Fauna (	
Saturation (A3) Marl Deposits (I	
Water Marks (B1) Hydrogen Sulfic	
	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Re	
	duction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surfa	=
Inundation Visible on Aerial Imagery (B7) Other (Explain i	in Remarks)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	T- LAC-Medital Lest (D2)
Field Observations:	
Surface Water Present?  Yes No _X Depth (inches)  Water Table Present?  Yes No _X Depth (inches)	); 
Saturation Present? Yes Y No Depth (inches) (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo	
Remarks:	
	·
	·

<b>VEGETATION -</b>	· Use	scientific	names	of	plants.
---------------------	-------	------------	-------	----	---------

VEGETATION COO COLOTIANO HARMOO OF PIANTA				
Tree Stratum (Plot size: 30')		Dominant Species?		Dominance Test worksheet:
1. DOT APPICALINE				Number of Dominant Species
•				That Are OBL, FACW, or FAC: (A)
2,			·	Total Number of Dominant
3				Species Across All Strata: Z (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
•		= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. NOT Applicable				FAC species x 3 =
• • • • • • • • • • • • • • • • • • • •		•••		FACU species x 4 =
2	·	<del></del>		UPL species x 5 =
3			<del></del>	Column Totals: (A) (B)
4				(5)
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1
7				1 - Rapid Test for Hydrophytic Vegetation
,	_ 0	= Total Co	ver	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 )				3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Onocles Seasibilis	30	yes	AACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation¹ (Explain)
2. Carex Flava		Yes	OBL	Problematic Hydrophytic Vegetation (Explain)
3. Impatiens copensis	15	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Enthania granditalia	15	100	FAC	be present, unless disturbed or problematic.
5. Solidago rugosa	10	NO	FAC	Definitions of Vegetation Strata:
6. Threes effusing	10	N 3	OBL	Tree Woody plants 2 in (7.6 cm) or more in diameter
• •				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7	<del></del>			
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 3.20 ft (1 m) tail.
10				Herb - All herbaceous (non-woody) plants, regardless of
11		<del>7</del>		size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
12				height.
_	100	_ = Total Co	ver	
Woody Vine Stratum (Plot size: <u> </u>				
1. not Applicable				
				Hydrophytic
2				Vegetation Present? Yes No
3				Present? Yes No
4				
	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			4
Tromano. (molado prioto fiamboro fioro el en a coparate	3 011001,			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence of	f indicators.)
Depth	Matrix			x Feature	es ,		_	
(inches)	2.5732	<u> %</u>	Color (moist)	<u></u> 5	Type <sup>1</sup>	_Loc²	Texture _	Remarks
		45	104R516		_ <u>C</u>		SIL -	
9"-16"	<u>byrsiz</u>	60%	1092411	10	<u>D</u>	<u>_ w</u>	SIL	
			7.542416	10		_~		
								The state of the s
				-	-			
		-	<del></del>					
1Type: C=Cc	ncentration D=Den	letion RM:		S=Maska	ed Sand G	rains	2l ocation	PL=Pore Lining, M=Matrix.
Hydric Soil I		OHOH, IXIVI	TOUGOU MAINA, M	- Iviaskt	Ju Guilla Gi	allio.		or Problematic Hydric Solls <sup>3</sup> :
Histosol			Polyvalue Belov		e (S8) ( <b>LR</b>	RR,		uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2) stic (A3)		MLRA 149B Thin Dark Surfa	•	(LRR R. N	ILRA 149B)		rairie Redox (A16) ( <b>LRR K, L, R</b> ) ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Loamy Mucky I	Mineral (I	F1) ( <b>LRR I</b>		Dark Su	ırface (S7) (LRR K, L, M)
	Layers (A5)	~ (A44)	Loamy Gleyed		<sup>-</sup> 2)			ue Below Surface (S8) (LRR K, L) irk Surface (S9) (LRR K, L)
	l Below Dark Surfac Irk Surface (A12)	5 (A11)	Depleted Matrix Redox Dark Su		3)			inganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark					nt Floodplain Soils (F19) (MLRA 149B)
3	leyed Matrix (S4) edox (S5)		Redox Depress	sions (F8	3)			Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)
1	Matrix (S6)						Very Sh	nallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, N	ILRA 1491	3)				Other (E	Explain in Remarks)
3Indicators of	hydrophytic vegetal	tion and we	etland hydrology mu	st be pre	sent, unles	ss disturbed	or problematic.	
	ayer (if observed):		·····					
Type:		<del></del>						V
Depth (inc	ches):						Hydric Soil I	Present? Yes <u>X</u> No
Remarks:								
,								
1								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: Chautauqua County \_\_\_ Sampling Date:\_ 5\24\16 Project/Site: Ball Hill Wind Project Applicant/Owner: Ball Hill Wind Energy, LLC State: NY \_ Sampling Point: DP-692 Investigator(s): B. V.,255 Section, Township, Range: TOWN of Villenova Landform (hillslope, terrace, etc.): H:115100e Local relief (concave, convex, none): Concave Slope (%): O-1°/ Subregion (LRR or MLRA): LRR-R Lat: 42.434810 Long: -79.131451 Datum: NAD 83 Soil Map Unit Name: Chartengua S. 1+ 1600 3708% Slopes NWI classification: UnDland Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No Are Vegetation  $\frac{\dot{\mathcal{N}}\dot{\mathcal{D}}}{\dot{\mathcal{N}}}$ , Soil  $\frac{\dot{\mathcal{N}}\dot{\mathcal{D}}}{\dot{\mathcal{N}}}$ , or Hydrology  $\frac{\dot{\mathcal{N}}\dot{\mathcal{D}}}{\dot{\mathcal{N}}}$  significantly disturbed? Are Vegetation ~ 0 , Soil ~ 0, or Hydrology ~ 0 naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. is the Sampled Area Yes X No Hydrophytic Vegetation Present? Yes \_\_\_\_\_ No × within a Wetland? Hydric Soil Present? Wetland Hydrology Present? No 🗶 If yes, optional Wetland Site ID:\_ Remarks: (Explain alternative procedures here or in a separate report.) upland Data Point for Wetland A610 - This upland Data Point was collected immediately downgradient OF the Wetland Boundary to demonstrate a last of jurisdictional Connection to another Feature **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) Surface Water (A1) \_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) \_\_ Crayfish Burrows (C8) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_ Water Marks (B1) \_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_ Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) \_\_\_ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_\_\_ Shallow Aquitard (D3) \_\_\_ Thin Muck Surface (C7) \_\_\_ Iron Deposits (B5) \_\_\_ Microtopographic Relief (D4) Inundation Visible on Aerial Imagery (B7) \_\_ Other (Explain in Remarks) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Present? No Depth (inches): Wetland Hydrology Present? Yes \_\_\_\_ No 🗶\_ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

2.1	Absolute	Dominant Indicator	Dominance Test worksheet;
Tree Stratum (Plot size:		Species? Status	
1. Betala alleghaniensis	<u>30</u>	Yes FAC	That Are OBL, FACW, or FAC:  (A)
2. Acer Saccharum	20	YES EACH	Total Number of Dominant
3			Total Number of Dominant Species Across All Strata:  (B)
4			Descrit of Description Consider
			Percent of Dominant Species That Are OBL, FACW, or FAC:
5			(10)
6			Prevalence Index worksheet:
7			Total % Cover of:Multiply by:
,	కం	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \5')			FACW species x 2 =
1. Almas Seculata	15	Yes OBL	FAC species x 3 =
1		· · · · · · · · · · · · · · · · · · ·	FACU species x 4 =
2. Priors Serstina	10	Yes FACH	UPL species x 5 =
3			Column Totals:(A)(B)
4			(5)
5			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
6			1 - Rapid Test for Hydrophytic Vegetation
7			∠ 2 - Dominance Test is >50%
ا سر	75	= Total Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:)			4 - Morphological Adaptations¹ (Provide supporting
1. Alpus Serrulata	5_	YOS GBL	data in Remarks or on a separate sheet)
2. Enthania grandifolia	5	Yes FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Arisaerra triphyllum	<u> </u>	Yes FAC	
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4			
5			Definitions of Vegetation Strata:
6			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8			Sapling/shrub - Woody plants less than 3 in. DBH
9			and greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11			Woody vines - All woody vines greater than 3.28 ft in
12			height.
	15	= Total Cover	
Woody Vine Stratum (Plot size: <u>ろ</u> る)			
1. DOT APPLICABLE			
			Hydrophytic
2		· · · · · · · · · · · · · · · · · · ·	Vegetation
3			Present? Yes No
4			
	0_	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Profile Desc	ription: (Describe t	to the dept	th needed to docun	nent the i	ndicator	or confirm t	he absence o	f indicators.)
Depth	Matrix			x Feature	<u>s</u>			
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0"-6"	2.54312	100					SIL.	
6"-20"	10y2416	95	2.54312	5_	<u>a</u>	<u>m</u>	SIL	
					<del></del>			
		<del></del>				·		
						<del></del> -		
							· · · · · · · · · · · · · · · · · · ·	
	oncentration, D=Dep	letion, RM:	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Histosol			Polyvalue Belo	w Surface	(S8) /I P	R R.		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		; (30) ( <b>L</b> IX	IX IX,	_	Prairie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Thin Dark Surfa					ucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky I			(, L)		urface (S7) ( <b>LRR K, L, M</b> ) ue Below Surface (S8) ( <b>LRR K, L</b> )
1	d Layers (A5) d Below Dark Surfac	e (A11)	Depleted Matri		۷,			ark Surface (S9) (LRR K, L)
	ark Surface (A12)	- ( )	Redox Dark Su		) .			anganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress	sions (F8)	•			Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) arent Material (F21)
	Redox (S5) I Matrix (S6)							hallow Dark Surface (TF12)
	rface (S7) (LRR R,	VILRA 149	B)					Explain in Remarks)
3Indicators o	of hydrophytic vegeta	tion and w	etland hydrology mu	st be pres	sent, unles	s disturbed	or problematic	; <b>.</b>
	Layer (if observed)			•	·			
Type:							Hydric Soil	Present? Yes No
Depth (in Remarks:	cnes):						nyuric 30ii	riesenti res no
Tromano.								
	·							
,								

Project/Site: Ball Hill Wind Project City/Co	ounty: Chautauqua County Sampling Date: 572511 6
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-693
Applicant/Owner: Ball Fill Will Energy, 223	<del> </del>
Investigator(s): B. V. R.S. Section	in, Township, Range: Town of Hanover
Landform (hillslope, terrace, etc.): H; 11 Slope L Local reli	ef (concave, convex, none): Concave/Flat Slope (%): 0-1%
Landform (hillslope, terrace, etc.): H; \(\mathbb{H} \) \(\mathbb{S} \) \(\omega \) \(\ome	28 Long: -79,134280 Datum: NAD 83
Soil Map Unit Name: Chantangua S. It Lana ,3+0 8 %	Slopes NWI classification: LPIand
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
	· · · · · · · · · · · · · · · · · · ·
Are Vegetation No., Soil No., or Hydrology No. significantly disturb	
Are Vegetation <u>wo</u> , Soil <u>wo</u> , or Hydrology <u>wo</u> naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: wet) and 月611
Remarks: (Explain alternative procedures here or in a separate report.)	in you, opional violatic one in
PFO wetland data point.	
	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) \(\frac{\frac}{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}{\frac}}}}{\frace\f{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	lor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospher	
Drift Deposits (B3) Presence of Reduce	, · ·
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
У Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	X X
Saturation Present? Yes No _X_ Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	

				· · · · · · · · · · · · · · · · · · ·	
Tree Stratum (Plot size: "30")		Dominant		Dominance Test worksheet:	
		Species?		Number of Dominant Species	
1. Ulmus Americana	25	Yes	FACIN	That Are OBL, FACW, or FAC:	(A)
					( )
2			<del></del>	Total Number of Dominant	1
3				Species Across All Strata:	(B)
					-
4			<del></del>	Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
	•				
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		= Total Cov		OBL species x1 =	
,	<u> </u>	= Total Cov	θſ		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1. Ulmas americana	35	Vec	COC. )	FAC species x 3 =	
1. almas anencana		162	KI-X-1-7	FACU species x 4 =	
2					1
	•			UPL species x 5 =	-
3,				Column Totals: (A)	_ (B)
4					
5.				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
6				· · · · · ·	
7				1 - Rapid Test for Hydrophytic Vegetation	
		= Total Cov		2 - Dominance Test is >50%	
٬ سر		- Total Gov	GI	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Herb Stratum (Plot size: 5 ')				4 - Morphological Adaptations <sup>1</sup> (Provide sup	portina
1. Ulmus americana				data in Remarks or on a separate sheet)	
2. Cornus amomum		Y45	FALW	Problematic Hydrophytic Vegetation¹ (Explai	in)
3. Fraxions Penasylvanian	<b>"</b> 5	4-5	FACE	<sup>1</sup> Indicators of hydric soil and wetland hydrology r	nust
				be present, unless disturbed or problematic.	
4				Definitions of Vegetation Strata:	
5				Dominions of Vogotation Strata.	
6				Tree - Woody plants 3 in. (7.6 cm) or more in dia	ameter
7				at breast height (DBH), regardless of height.	
8.				Sapling/shrub - Woody plants less than 3 in. D	вн
				and greater than or equal to 3.28 ft (1 m) tall.	
9				W-1 All -1 ( I A -1 I	
10				Herb – All herbaceous (non-woody) plants, regardles size, and woody plants less than 3.28 ft tall.	s of
				size, and woody plants less than 3.26 it tall.	
11				Woody vines - All woody vines greater than 3.28 ft	in
12			· ·	height.	_
	20	= Total Co	/or		
		- Total Co	701		
Woody Vine Stratum (Plot size: 30')					
1. NOT APPLICATE					
			• •	Hydrophytic	
2				Vegetation	
3		****	<u> </u>	Present? Yes No	
4					
		= Total Co	ver		
Remarks: (Include photo numbers here or on a separate	sheet.)				
-				<b>Y</b>	
Trees present oxh	.b.+ 1	norph	elocy. C	d adoptations	
			-		
Shallow Root Su	Jskm:	s and	Ŧlh+i	ing of bose	

Profile Desc	ription: (C	Describe 1	to the dept	h needed t	o docur	nent the ir	ndicator	or confirm	the absence o	of indicator	rs.)			
Depth		Matrix				x Features		. 2			D wlee			
(inches)	Color (		<u>%</u>	Color (m		<u>%</u>	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture		Remarks	··-··		
	1042			7.5 yr		15%			<u></u>					
9"-15"	IOYR	51L	70%	IUGR		20%	<u>D</u>	<u>m</u>	<u></u>			<del></del>		
				7.5yR	<u> 518</u>	106	<u></u>	~						
		<del></del>												
			·	<del>,</del>								·		
<sup>1</sup> Type: C=C			letion, RM=	Reduced N	Matrix, M	S=Masked	Sand G	ains.			Lining, M=Matr matic Hydric S			
Hydric Soil Histosol		•		Polyva	lue Belo	w Surface	(S8) (I R	R R			(LRR K, L, MLI			
	pipedon (A2	2)		•	RA 149B		(00) (2.1	,			ox (A16) ( <b>LRR</b>			
Black H	istic (A3)							LRA 149B	,	-	or Peat (S3) (L			
	en Sulfide (A					Mineral (F		(, L)			( <b>LRR K, L, M</b> ) Surface (S8) ( <b>L</b> l			
	d Layers (A d Below Da	•	e (A11)		ed Matri	Matrix (F2 x (F3)	)				(S9) (LRR K,			
Thick D			• (• • • • )	✓ Redox					Iron-M	anganese N	Masses (F12) (I	RR K, L, R)		
	Mucky Mine					Surface (F	7)			Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	Gleyed Mati Redox (S5)			Redox	Depres	sions (F8)				Spould (TA) arent Mater		4, 140, 149D)		
	d Matrix (S6										k Surface (TF1:	2)		
	ırface (S7)		MLRA 1496	3)					Other	(Explain in l	Remarks)			
31	د دا سمسان دیا گ		and	tland budge	dogy my	est ha proc	ont unlo	se dieturber	d or problemation					
Restrictive					nogy mu	ist be hies	ont, unies	ss disturbed	J OI PIODIEITIAN					
Type:														
Depth (in	iches):								Hydric Soil	Present?	YesX_	No		
Remarks:														
,														
												•		
1										····				

#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: Chautauqua County Sampling Date: 5)25/16 Project/Site: Ball Hill Wind Project Applicant/Owner: Ball Hill Wind Energy, LLC State: NY Sampling Point: DP- 694 Investigator(s): B. Vizis Section, Township, Range: Town of Hanover Landform (hillslope, terrace, etc.): H.1151002 Local relief (concave, convex, none): Convex Slope (%): 170 Subregion (LRR or MLRA): LRR-R Lat: 42,44039 Long: -79,134337 Datum: NAD 83 Soil Map Unit Name: Chantongua S: 1+ Laum 3 to 8% 5 lopes NWI classification: UPICIND Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No Are Vegetation $\overset{\sim}{\sim}\overset{\circ}{\circ}$ , Soil $\overset{\sim}{\sim}\overset{\circ}{\circ}$ , or Hydrology $\overset{\sim}{\sim}\overset{\circ}{\circ}$ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Yes X No Hydrophytic Vegetation Present? Yes No X within a Wetland? Hydric Soil Present? Yes \_\_\_\_\_ No ❤ Wetland Hydrology Present? Yes \_\_\_\_\_ No ❤ If yes, optional Wetland Site ID:\_\_\_\_\_ Remarks: (Explain alternative procedures here or in a separate report.) Upland Data Point for wetland HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Surface Water (A1) Moss Trim Lines (B16) \_\_\_ High Water Table (A2) \_\_\_ Aquatic Fauna (B13) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_ Crayfish Burrows (C8) \_\_ Water Marks (B1) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_ Sediment Deposits (B2) \_\_\_ Stunted or Stressed Plants (D1) \_\_\_ Presence of Reduced Iron (C4) Drift Deposits (B3) \_\_\_ Algal Mat or Crust (B4) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_\_\_ Thin Muck Surface (C7) \_\_\_ Shallow Aquitard (D3) \_\_\_ Iron Deposits (B5) \_\_\_ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) \_\_ Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Yes \_\_\_\_ No \_\_\_\_ Depth (inches): Surface Water Present? Yes \_\_\_\_ No x Depth (inches): Water Table Present? Yes \_\_\_\_ No \_X Depth (inches): Wetland Hydrology Present? Yes \_\_\_\_\_ No 🔀 Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Prins septina			FACH	Number of Dominant Species
2. Acer Saccherum			FACL	That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant Species Across All Strata: (B)
3				
4	<del></del>	<del></del>		Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
5				marate obe, raow, or rao(AB)
6	<del></del>			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	<u> 3</u> 0	= Total Cov	er	OBL species
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 = 3 &
1. Rosa multiflora	25	Yes	FAC.	FAC species
2. Corous amonum	10	Yes	FACW	FACU species x 4 = 12.6
3				UPL species
				Column Totals: <u>115</u> (A) <u>360</u> (B)
4			<del></del>	Prevalence Index = B/A = 3.13
5				1 Tovalerice Index — BIA —
6		*****	·	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	_35_	= Total Cov	rer	× 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0¹
1. Rosa multiflora	30	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Arisaerra triphyllum			FAC	Problematic Hydrophytic Vegetation¹ (Explain)
3. Comus amomum			FACW	
				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Vegetation Strata:
5	<del></del>	<del></del>		Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			·	at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 3.20 ft (1 fil) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11.				size, and woody plants less than 3.20 it tan.
12.				Woody vines - All woody vines greater than 3.28 ft in height.
12.	5 o	= Total Cov	/or	neight.
Woody Vine Stratum (Plot size: 3℃/ )		- 10tal Co	7 <del>0</del> 1	
1. not opolicable	<del></del>			Hydrophytic
2			<del></del>	Vegetation
3				Present? Yes No
4				
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Desc	ription: (Describe	to the dept	th needed 1	o docun	nent the i	ndicator	or confirm	the absence of indicators.)
Depth	Matrix				x Features	§ 1	. 2	
(inches)	Color (moist)	<u> </u>	Color (m	ioist)	%	Type <sup>1</sup>	_Loc²	Texture Remarks
	7,54513	90		1.10	<del></del>	<del></del>		5EL
16-70"	2,59317	40	1642		5			310
			7.5yr	314				
		<del></del>		<del></del>			<del></del>	
	•			·				
							<del></del>	
			<del></del>					
	ncentration, D=Dep	letion, RM=	Reduced N	latrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I			_					Indicators for Problematic Hydric Solls <sup>3</sup> :
Histosol	(A1) ipedon (A2)		-	lue Belov RA 149B	w Surface \	(S8) ( <b>LR</b> I	RR,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black His					•	RR R, M	LRA 149B)	
Hydroger	n Sulfide (A4)		Loamy	Mucky N	vineral (F	1) (LRR K		Dark Surface (S7) (LRR K, L, M)
	Layers (A5)	- (844)			Matrix (F2	!)		Polyvalue Below Surface (S8) (LRR K, L)
	l Below Dark Surface rk Surface (A12)	e (A11)		ed Matrix Dark Su	र (F3) rface (F6)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)				Surface (F			Piedmont Floodplain Soils (F19) (MLRA 149B)
l .	leyed Matrix (S4)		Redox	Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Red Parent Material (F21)
	Matrix (S6) face (S7) ( <b>LRR R, N</b>	ILRA 149E	3)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
1								
	hydrophytic vegetat .ayer (if observed):		tland hydro	logy mu	st be pres	ent, unles	s disturbed	i or problematic.
Type:	.ayer (ii observeu).							
Depth (inc	:hes):							Hydric Soil Present? Yes No
Remarks:								
,								

Project/Site: Ball Hill Wind Project City/	County: Chautauqua County Sampling Date: 5)25/16				
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 695				
Investigator(s): S. V.215 Sect					
Landform (hilleland torrand ata): 14:1151c.a.s. Landles	slight (concave convex none): Casa Scale Slone (%): O =1 9/				
Subregion (LRR or MLRA): LRR-R Lat: 42,438	854 tarri - 79 134610 Datum: NAD 83				
Subregion (LRR or MLRA): Lat: 12115	Long: Datum.				
Soil Map Unit Name: Valios grovelly Sitt loam,	Rolling NWI classification: UPICIN J				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)				
Are Vegetation No, Soil No, or Hydrology NO significantly distu	ırbed? Are "Normal Circumstances" present? Yes X No				
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally problem	natic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes ★ No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland A613				
Remarks: (Explain alternative procedures here or in a separate report.)					
Isolated pemin a fores	+				
1201CTTS LEW IN C. MIEZ					
HYDROLOGY	Consider Indicators (minimum of two required)				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leav					
High Water Table (A2) Aquatic Fauna (B13					
Saturation (A3) Marl Deposits (B15	<b>1</b>				
Water Marks (B1) Hydrogen Sulfide C	I .				
	• —				
Algal Mat or Crust (B4) Recent Iron Reduct Iron Deposits (B5) Thin Muck Surface	1				
Indit Deposits (B5) Thirt Make Surface Inundation Visible on Aerial Imagery (B7) Other (Explain in R					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _K Depth (inches):					
Water Table Present?  Yes No X Depth (inches):					
Saturation Present? Yes X No Depth (inches): 1	⊘" Wetland Hydrology Present? Yes <u>×</u> No				
(includes capillary fringe)	7 Westund Hydrology Freedom 100 110				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:				
Remarks:					
Tomano.					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')		Species?		Dominance Test worksheet:
				Number of Dominant Species That Are OBL FACW or FAC:
1. NoTopplicable		<del></del>		That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
				(5)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6	•			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cov	or.	OBL species x1 =
		- Total Oot		
Sapling/Shrub Stratum (Plot size: \\5')				FACW species x 2 =
1. Fraxinus Penosulvanica	5	Yes	FACW	FAC species x 3 =
1. Fraxinus Pennsylvanica 2. Lonicera tartarica	5	V	~~	FACU species x 4 =
2. Lonicora Tartarica	<del></del> ,	167	FMC	UPL species x 5 =
3			. <u></u>	
				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Prevalence maex - b/A -
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				
	10	= Total Cov	/er	≥ 2 - Dominance Test is >50%
Li Louis (Distriction Fred				3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5')	76	Mac	C0.	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Toxicod endon Radicons		Yes		data in Remarks or on a separate sheet)
2. Francions pennsylvances	16	Y 05	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Rosa multidora	10	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Lonicera tartarica	10	405	FAC	be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
5. Arisaerra triphyllum		<u> </u>	FAL	Definitions of Vegetation Strata.
6. Onoclea Sersibilis	5	ND	FIXEN	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				
8	<del></del>			Sapling/shrub – Woody plants less than 3 in, DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11		****		
12.				Woody vines - All woody vines greater than 3.28 ft in
12			·	height.
	_5	= Total Co	ver	
Woody Vine Stratum (Plot size:3o')				
1. noT opplicable				Hydrophytic
2				Vanatation
3				Present? Yes No
0				•
4				
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
	,			

Profile Desc	ription: (Describe to	the dept	h needed to	docum	ent the in	dicator	or confirm	the absence	of indicators.)
Depth	Matrix				(Features				
(inches)	Color (moist)		Color (mo			Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<u>e"- 5"</u>	7.54 312	95	10yr		<u> </u>	<u> </u>	<u> </u>	ジドレ	
5-16"	2.54312	<u> </u>	loge	416	1040	<u> </u>	<u>m</u>	SEL	
			syr	3/4	5%	ي م	$\sim$		
		<del></del> .							
		<del></del> -							
<del></del>				<del> </del>					
		<del></del> .							
					<del></del>				
				<del></del>					
				<del></del>				<del></del>	
	oncentration, D=Deple	etion, RM=	Reduced M	atrix, MS	S=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil						(00) (1 =			for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		•	ue Belov <b>A 149B</b> )	v Surface	(S8) ( <b>LR</b>	R R,		fluck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black Hi						RR R. M	LRA 149B)		Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)				/lineral (F1				Surface (S7) (LRR K, L, M)
Stratified	l Layers (A5)				Matrix (F2)	)			lue Below Surface (S8) (LRR K, L)
	Below Dark Surface	(A11)		d Matrix					ark Surface (S9) (LRR K, L)
	ark Surface (A12)		_X Redox			<del>7</del> \			anganese Masses (F12) (LRR K, L, R)
	fucky Mineral (S1)				Surface (Fi ions (F8)	/)			ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)
	Bleyed Matrix (S4) Redox (S5)		Redux	Dehiess	ions (Fo)				arent Material (F21)
	Matrix (S6)								Shallow Dark Surface (TF12)
	rface (S7) (LRR R, M	LRA 149E	3)					Other	(Explain in Remarks)
3Indicators of	f hydrophytic vegetati	on and we	tland hydrol	oav mus	st be prese	ent. unles	s disturbed	or problemation	С.
	Layer (if observed):			-3,				T.	
Type:									•/
Depth (inc	ches):							Hydric Soil	Present? Yes X No No
Remarks:								<u></u>	
,									
		•							
1									

Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 5125116
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point; DP- 696
••	Section, Township, Range: Tax of Hanover
Landform (hillslope torrose etc.): Hills look	Level relief (concern convey none): Cavestage Stone (9/): 7 - 20
Landom (missippe, terrace, etc.).	Local relief (concave, convex, none): Slope (%): ヹーるい   39公3
	olling NWI classification: MPI and
Are climatic / hydrologic conditions on the site typical for this time of	Y Control of the Cont
Are Vegetation No. Soil No. or Hydrology No. significant	ntly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $\[ \begin{array}{cccccccccccccccccccccccccccccccccccc$	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesX_ No	Is the Sampled Area
Hydric Soil Present? Yes No メ	within a Wetland? Yes No 🗡
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate re	eport.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	oly) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stain	• • • • • • • • • • • • • • • • • • • •
High Water Table (A2) Aquatic Fau	
Saturation (A3) Marl Depos	
	Sulfide Odor (C1) Crayfish Burrows (C8)
	hizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	f Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Iron Deposits (B5) Thin Muck S	Reduction in Tilled Soils (C6) Geomorphic Position (D2) Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Expl	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	The reduction (50)
Surface Water Present? Yes NoX Depth (incl	hes);
Water Table Present? Yes No K Depth (incl	·
Saturation Present? Yes No Depth (incl	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pl	hotos, previous inspections), if available:
Remarks:	

* EGET THE CONTRACT OF PRINCE OF PRI				
Tree Stratum (Plot size:3o <sup>3</sup> )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
			FACW	Number of Dominant Species That Are ORL FACW or FAC:
1. Fracions penesylvanica	50	Yes		That Are OBL, FACW, or FAC: (A)
2. Her Sauterum			PACL	Total Number of Dominant
3. Ulmus americana		no	EACH	Species Across All Strata: (B)
4. Mains Pranifolia		140	upc	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	<del></del>			That Are OBL, FACW, or FAC: 80 (A/B)
6			· ··	Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
	70	= Total Cov	/er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15)		,		FACW species x 2 =
1. Rosa multiflora	7.0	Yus	Cor	FAC species x 3 =
				FACU species x 4 =
2. Lonicera tertorica	10	4-67	. <u>- FAC</u>	UPL species x 5 =
3. Francious pennsylvanica		100	EKW	Column Totals: (A) (B)
4				
5			<u> </u>	Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
/·		= Total Co		× 2 - Dominance Test is >50%
<i>c</i> '		= Total Co	ver	3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size:5')	****			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. toxicodurdon radicans				data in Remarks or on a separate sheet)
2. Fraince Pensylvanica	10	Yes_	PACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. Fragaria Virginiana	_5_	70	FACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				Sapling/shrub – Woody plants less than 3 in. DBH
8				and greater than or equal to 3.28 ft (1 m) tall.
9	•			Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11,				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	40	_ = Total Co	ver	
Woody Vine Stratum (Plot size:3o')		-		
1. notcppicable				Hydrophytic
2				Vegetation
3				Present? Yes No
4				
	_ 0	_ = Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)		<u> </u>	
				,

Profile Desc	ription: (Describe	to the dep	th needed to docur	ment the ir	idicator (	or confirm t	he absence o	of indicator	·s.)		
Depth	Matrix		Redo	x Features	;						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc² _	Texture ≤∵		Remarks		
0 1-13"	104R313	100					<u> </u>				
13"-20"	1040313	95	lograle			<u>~</u>	<u> </u>				
				<del></del>							
¹Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	IS=Masked	Sand Gr	ains.	<sup>2</sup> Location	PL=Pore	Lining, M=Mat	rix.	
Hydric Soil I									matic Hydric S		
Histosol	• •		Polyvalue Beld		(S8) ( <b>LR</b>	R R,			LRR K, L, ML		
Histic Er	oipedon (A2)		MLRA 1498 Thin Dark Surf	•	PRR M	I RA 149R\			ox (A16) ( <b>LRR</b> or Peat (S3) ( <b>L</b>		
	en Sulfide (A4)		Loamy Mucky					•	(LRR K, L, M		, ,
	Layers (A5)		Loamy Gleyed	-					Surface (S8) (L		-)
	d Below Dark Surfac	e (A11)	Depleted Matr				Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)				
	ark Surface (A12)		Redox Dark S								
	flucky Mineral (S1) Bleyed Matrix (S4)		Redox Depres		''		Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
· ·	Redox (S5)			. ,				arent Mater			
	Matrix (S6)								k Surface (TF1	2)	
Dark Su	rface (S7) (LRR R, I	MLRA 149	<b>B</b> )				Other	(Explain in l	Kemarks)		
<sup>3</sup> Indicators o	f hydrophytic vegeta	ition and w	etland hydrology mu	ust be pres	ent, unles	s disturbed	or problemation	э.			
	Layer (if observed)			<del></del>							
Type:											¥
Depth (in	ches):						Hydric Soil	Present?	Yes	No_	
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											
Remarks:											

Project/Site: Ball Hill Wind Project City/C	ounty: Chautauqua County Sampling Date: 5/25/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 647
	on, Township, Range: Town of Hanaver
Landform (hillslope, terrace, etc.): 14.1151ce Local reli	
Subregion (LRR or MLRA): LRR-R Lat: 42.437.5	581 - 79,134121 Patrim NAD 83
Subregion (LRR or MLRA): Little Lat: 421   314	Long: Datum: U.S. Co.
Soil Map Unit Name: Valo: > Gravelly S: 1+ loam, Etal	NWI classification: NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation <u>N</u> C, Soil <u>N</u> C, or Hydrology <u></u> C significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesX No	is the Sampled Area
Hydric Soil Present? Yes 🔀 No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland SE14
Remarks: (Explain alternative procedures here or in a separate report.)	
Pro wetland data point.	
LAD Meters Grand Login	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Y Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	
Sediment Deposits (B2) Oxidized Rhizospher	
Drift Deposits (B3) Presence of Reduce	·
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present?  Yes No Depth (inches):  Water Table Present?  Yes No Depth (inches):	
	Wetland Hydrology Present? Yes X No
Saturation Present? Yes <u>x</u> No Depth (inches): Solution (includes capillary fringe)	wettalid hydrology Fresent? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	
Tomano.	

Tree Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:
,		Species?		Number of Dominant Species
1. Wimns americana				That Are OBL, FACW, or FAC:
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:
5	<del></del>			That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
,	<u> 3a</u>	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: ) 55'				FACW species x 2 =
1. Ulmus americana	20	405	focus	FAC species x 3 =
2. Frozinhs pennsylvenica	10	YES	PACW	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	_	= Total Cov		∠ 2 - Dominance Test is >50%
Mark Otahum (District		- Jotal Cov	өг	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:)		Vice	C0.41	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Fraziones penosylvanica	25	<u>445</u> 445		data in Remarks or on a separate sheet)
2. Enthania graminifolia		145		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Corex gynandra		NO	OBL	¹Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7	<del></del>			at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12				Woody vines - All woody vines greater than 3.28 ft in height.
	40	= Total Cov	/er	nvignt.
Woody Vine Stratum (Plot size:)	<u>:                                  </u>	15(0)		
1. NOTAPPICALE				
_			·	Hydrophytic
2				Vegetation
3				Present? Yes No
4			<del></del>	
	0	= Total Co	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Desc	ription: (Describe t	o the dep	th needed to docum	ent the ir	ndicator	or confirm	the absence of	Indicators.)			
Depth	Matrix			Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0"-7"	2.54312	95	542 416			<u>m</u> .	SIL_				
7415"	7.54312	85	ا(خ ج	310	D	×-	5 FC				
			7 syr 518	5	<b>C</b>	~					
					<del></del>						
				<del></del>							
1Tune: C=C	oncentration D=Donl	etion PM	=Reduced Matrix, MS	=Masked	Sand G	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil		etion, Kivi	-Neddced Matrix, Mc	-Wasket	Odilo Oi	anio.		or Problematic Hydric Solis³:			
Histosol			Polyvalue Belov	v Surface	(S8) ( <b>LR</b>	RR,		rck (A10) ( <b>LRR K, L, MLRA 149B</b> )			
	oipedon (A2)		MLRA 149B)				·	rairie Redox (A16) ( <b>LRR K, L, R</b> )			
	istic (A3)		Thin Dark Surfa					icky Peat or Peat (S3) (LRR K, L, R)			
	en Sulfide (A4)		Loamy Mucky M Loamy Gleyed !			(, L)		rface (S7) ( <b>LRR K, L, M</b> ) ie Below Surface (S8) ( <b>LRR K, L</b> )			
	d Layers (A5) d Below Dark Surface	e (A11)	Depleted Matrix		.,		Thin Dark Surface (S9) (LRR K, L)				
	ark Surface (A12)	- ( / - /	又 Redox Dark Sur					nganese Masses (F12) (LRR K, L, R)			
1	lucky Mineral (S1)		Depleted Dark S		<del>-</del> 7)		Piedmont Floodplain Soils (F19) (MLRA 149B)				
	Bleyed Matrix (S4)		Redox Depress	ions (F8)				podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)			
	Redox (S5) I Matrix (S6)							allow Dark Surface (TF12)			
	rface (S7) (LRR R, N	ILRA 149	3)					Explain in Remarks)			
			etland hydrology mus	t be pres	ent, unles	ss disturbed	or problematic.				
1	Layer (if observed):										
Type:							Undria Sall E	Present? Yes <u> </u>			
Depth (in	ches):						Hydric 30ii F	resent res no			
Remarks:											
,											
								-			

Project/Site: Ball Hill Wind Project City/C	county: Chautauqua County Sampling Date: 5175116
	State: NY Sampling Point: DP- 698
Investigator(s): B. V.275 Section	
	ef (concave, convex, none): Convex Slope (%): 3 5%
Subregion (LRR or MLRA): LRR-R Lat: 42.4375	VK\ Long: -79,134121 Datum: NAD 83
Soil Map Unit Name: Valios gravelly S: 1+ Loam &	7 210062 NWI classification: (1)1600
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{\mathcal{V}c}{\mathcal{V}}$ , Soil $\underline{\mathcal{V}v}$ , or Hydrology $\underline{\mathcal{V}o}$ significantly distur	
Are Vegetation 70, Soil 70, or Hydrology 70 naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS Attach site map showing san	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No 📉	Is the Sampled Area within a Wetland? Yes No
Hydric Soil Present? Yes No X	within a Wetland? Yes No 🗡
Wetland Hydrology Present? Yes No 🟃	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
woland Data point for wester	vd A614.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13)	•
Saturation (A3) Marl Deposits (B15)	=
Water Marks (B1) Hydrogen Sulfide Oc	
Sediment Deposits (B2) Oxidized Rhizospher	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	d Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	W. d. Liu & Liu Burando Mar.
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	
Remarks.	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')		Species?		Dominance Test worksheet:
<del></del>		Yes		Number of Dominant Species
1. Acer Saccharum	+0			That Are OBL, FACW, or FAC:(A)
2. Malus Pranifolia	10	<u> 70</u>	MPL	Total Number of Dominant
				Species Across All Strata: (B)
3	<del></del>			Species Acioss All Otlata. (B)
4	<del></del>			Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: (A/B)
0.	<del></del>			
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		OBL species x1 =
,	<u>C)C</u>	= rotal Cov	er	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Acer Sarcherum	20	Yes	Earn	FAC species 5 x3 = 1 S
				FACU species 130 x4= 52c
2. Fugus grandifolia	<u> </u>	<u> 462</u>	FACL	UPL species 20 x5= 100
3. Acer platanoides	10	Yes	LIPL	
•				Column Totals: <u>18</u> 6 (A) <u>69</u> 5 (B)
4				
5				Prevalence Index = B/A = 3.8
				Hydrophytic Vegetation Indicators:
6				' ' '
7				1 - Rapid Test for Hydrophytic Vegetation
	40	= Total Cov	er	2 - Dominance Test is >50%
ן נית		- 10tai 00v	GI	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:5 ')				4 - Morphological Adaptations¹ (Provide supporting
1. Fraxinis pennsylvanica	25	Yes	EAU	data in Remarks or on a separate sheet)
- On (	<u> </u>	11.06		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Acer Saccharin				Floblematic Hydrophytic vegetation (Explain)
3. Fugns grandifolia	10	100	FACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Enthania granini folia	5	ΔΕ.λ	En	be present, unless disturbed or problematic.
4. Zh Thansa Grans n. Torra		140	PHC	
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
-				at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in, DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				
				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	60	= Total Cov	/er	
Woody Vine Stratum (Plot size: 36')				
1. not opplicable		<b>,</b>		
2				Hydrophytic
				Vegetation Present?  Yes No
3				Fresentr res NO
4				į
	•	= Total Co	/OF	
		TOTAL CO		
Remarks: (include photo numbers here or on a separate	sneet.)			
1				

Profile Desc	ription: (Describe	to the dep	th needed to document the	indicator or cor	firm the absence	e of indicators.)
Depth	Matrix	<del></del>	Redox Feature	<u>s</u>	2	<u> </u>
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type <sup>1</sup> Loc		Remarks
0".8"	loge314	100			<u>3上</u>	
8"20"	2.54516	100			SIL	
		·				
			***************************************		<del></del>	
			<del> </del>			
		-				
				. <u></u>		
<sup>1</sup> Type: C=Co	oncentration, D=Der	letion. RM=	Reduced Matrix, MS=Maske	d Sand Grains.	<sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil I					Indicator	s for Problematic Hydric Solls³:
Histosol			Polyvalue Below Surface	(S8) ( <b>LRR R</b> ,		Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B)			t Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3) en Sulfide (A4)		Thin Dark Surface (S9) ( Loamy Mucky Mineral (F			Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M)
I	d Layers (A5)		Loamy Gleyed Matrix (F:			value Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surfac	e (A11)	Depleted Matrix (F3)	•		Dark Surface (S9) (LRR K, L)
1	ark Surface (A12)		Redox Dark Surface (F6			Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1) Bleyed Matrix (S4)		<ul><li>Depleted Dark Surface (</li><li>Redox Depressions (F8)</li></ul>			mont Floodplain Soils (F19) ( <b>MLRA 149B</b> ) c Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Redox (S5)		(1 o)			Parent Material (F21)
Stripped	Matrix (S6)				Very	Shallow Dark Surface (TF12)
Dark Sui	rface (S7) ( <b>LRR R, I</b>	MLRA 149E	3)		Othe	r (Explain in Remarks)
<sup>3</sup> Indicators of	f hydronhytic vegeta	tion and we	etland hydrology must be pres	ent unless distu	rhed or problems	tic
	Layer (if observed)		nana nyarology maat bo proc	ort, arriodo diota		
Type:						
Depth (inc	ches):				Hydric So	oil Present? Yes No 💢
Remarks:						- Anna -
,						

Project/Site: Ball Hill Wind Project	City/County Chauta	ugua County	Sampling Date: 5/25/16
Applicant/Owner: Ball Hill Wind Energy, LLC	City/County		Sampling Point: DP- 699
Investigator(s): B. Viets	Section Township R		Harover
Landform (hillslope, terrace, etc.): H. 11 Slope	Local relief (concave, con	wey none). Com Cov	Slone (%): 1-2 %
Subregion (LRR or MLRA): LRR-R Lat: 4	2.437031	-79.1336	2.2 Datum: NAD 83
Subregion (LRR or MLRA): Lat: 1	2	ng:	Datum.
Soil Map Unit Name: Valois gravelly Silt L	ount kelling	NVVI classific	pation: Ottotal
Are climatic / hydrologic conditions on the site typical for this ti			
Are Vegetation <u>No</u> , Soil <u>no</u> , or Hydrology <u>no</u> sign	ificantly disturbed? Are	"Normal Circumstances"	present? Yes 🔀 No
Are Vegetation NO, Soil NO, or Hydrology NO nate	rally problematic? (If r	needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point	locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No	is the Sample	d Area	
Hydric Soil Present?  Yes No	within a Wetla	and? Yes <u>×</u>	No
Wetland Hydrology Present? Yes X	If ves. optional	Wetland Site ID: <u>い</u> e・t	1and 19615
Remarks: (Explain alternative procedures here or in a separ			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	eators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	t anniv)		il Cracks (B6)
	Stained Leaves (B9)	✓ Drainage Pa	
1	c Fauna (B13)	Moss Trim I	1
, , ,	eposits (B15)		Water Table (C2)
· ·	gen Sulfide Odor (C1)	Crayfish Bu	rrows (C8)
Sediment Deposits (B2) Oxidiz	ed Rhizospheres on Living Ro	ots (C3) Saturation \	Visible on Aerial Imagery (C9)
<del></del>	nce of Reduced Iron (C4)		Stressed Plants (D1)
1 <del></del>	t Iron Reduction in Tilled Soils		c Position (D2)
, , ,	luck Surface (C7)	Shallow Aq	ı
	(Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		× FAC-Neutra	il Test (D5)
Field Observations:  Surface Water Present?  Yes No _X Depti	(inches):		
Surface Water Present? Yes No Depti Water Table Present? Yes No Depti			
Saturation Present? Yes X No Depti	· ·	Netland Hydrology Prese	ent? Yes <u>X</u> No
(includes capillary fringe)	` ' '		
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspectio	ns), if available:	
Remarks:			

	A h = = 1t=	Dandaaal	la dia atau	
Tree Stratum (Plot size: 3c')		Dominant Species?		Dominance Test worksheet:
				Number of Dominant Species
1. net Applicable				That Are OBL, FACW, or FAC:
2				
				Total Number of Dominant Species Across All Strata: (B)
3		<del></del>		Species Across All Strata: (B)
4	<del> </del>			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
	•			
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \5')				FACW species x 2 =
1. NOT APPLICABLE				FAC species x 3 =
			<del></del>	FACU species x 4 =
2				
3				UPL species x 5 =
				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				
	٥	= Total Cov	er	
Herb Stratum (Plot size:5 ' )	***************************************			3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Chocley Sensibilis	l=5	Jas	Chall	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				· ' '
2. Enthamia graminifolia	10	<u> 190</u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Carex Flava		NO	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
5				Definitions of Vegetation Strata.
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
				Sanling/about Mandy plants less than 2 in DRU
8				Sapling/shrub – Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and grouter than or equal to 0.20 it (1 iii) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
10			· <del></del>	size, and woody plants less than 3.28 ft tall.
11	<del></del>		·	Western Allers designed and the 2000
12				Woody vines - All woody vines greater than 3.28 ft in height.
	C)	- Total Car		no.gut.
<b>~</b>		= Total Cov	/ <del>U</del> I	
Woody Vine Stratum (Plot size: 30')				
1. <u>Pat applicable</u>				
• •				Hydrophytic
2				Vegetation
3				Present? Yes X No X
4				
				{
		= Total Co	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Desc	ription: (Describe t	o the dep	th needed to docu	ment the	indicator	or confirm t	the absence of	indicators	i.)	
Depth	Matrix	<del></del>	Redo	x Feature	<u>s</u> _ 1	. 2			Damaska	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture		Remarks	
0" 16"	2.59311	G &	54R416	10	<u> </u>	<u> </u>	5FL -			
			· · · · · · · · · · · · · · · · · · ·							
<del></del>										
				-	·				· · · · · · · · · · · · · · · · · · ·	
			<del> </del>							
										ļ
		<del></del>		<del></del>						
		***************************************					-			
				·					······································	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Maske	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Li	ining, M=Matri	x
Hydric Soil I							Indicators fo	or Problem	atic Hydric S	oils³:
Histosol	(A1)		Polyvalue Beld	w Surface	e (S8) ( <b>LR</b>	RR,			.RR K, L, MLR	
Histic Ep	oipedon (A2)		MLRA 149E						x (A16) ( <b>LRR I</b>	
Black Hi			Thin Dark Surf		•				r Peat (S3) ( <b>LF</b>	RR K, L, R)
	n Sulfide (A4)		Loamy Mucky			(, L)			LRR K, L, M)	ND 14 (1)
	Layers (A5)		Loamy Gleyed		2)				urface (S8) (LF	
	d Below Dark Surface	e (A11)	Depleted Matr		25				(S9) (LRR K, L asses (F12) (L	
	ark Surface (A12) lucky Mineral (S1)		Depleted Dark	-	-				n Soils (F19) (	
	Bleyed Matrix (S4)		Redox Depres						) (MLRA 144A	
1	ledox (S5)		Rodox Bopros	.5.51.5 (1.5	,			ent Materia		<i></i>
1 .	Matrix (S6)								Surface (TF12	:)
	rface (S7) (LRR R, N	ILRA 149	3)				Other (E	Explain in R	emarks)	İ
_										
	f hydrophytic vegetat		etland hydrology mu	ust be pre	sent, unles	ss disturbed	or problematic.			
1	Layer (if observed):									
Type:									Yes _X	
Depth (inc	ches):						Hydric Soil F	resent?	Yes	No
Remarks:										
										ĺ
										Į
,										Į.

Project/Site   Ball Hill Wind Project   City/County   Chautauqua County   Sampling Date   Size   I/C
Section, Township, Range: The Conserved Cons
Landform (hillslope, terrace, etc.): Hill Scree Local relief (concave, convex, none): Carrier Slope (%): The Subregion (LRR or MLRA): LRR-R Lat: 42.43 pc 51 Long: -79.133425 Datum; NAD 83 Soil Map Unit Name: Yellow (NA): Soil Carrier (NA): Soil Map Unit Name: Yellow (NA): Soil Carrier (NA): Soil Map Unit Name: Yellow (NA): Soil Map Unit Name:
Subregion (LRR or MLRA): LRR Lat: 42.43.045 Long: -74.133425 Datum: NAD 83  Soil Map Unit Name: 1/4.1035 4/4.4045 S. 1.4 Long: -74.133425 Datum: NAD 83  Are Vegetation No. Soil 20 or Hydrology 20 significantly disturbed? Are "Normal Circumstances" present? Yes. No. No. X ls the Sampled Area within a Wetland? Yes. No. X within a Wetland? Yes. No. X ls the Sampled Area within a Wetland? Yes. No. X lf yes, optional Wetland Site ID:  #### Remarks: (Explain alternative procedures here or in a separate report.)  #### Wetland Hydrology Indicators:  #### Primarks: (Explain alternative procedures here or in a separate report.)  #### Wetland Hydrology Indicators:  #### Primarks: (Explain alternative procedures here or in a separate report.)  #### Water-Stained Leaves (B9)  ### Surface Water (A1)  ### Aqualic Fauna (B13)  ### Surface Water (A1)  ### Aqualic Fauna (B13)  ### Saturation (A3)  ### Mart Deposits (B15)  ### Drainage Patterns (B10)  ### Mart Deposits (B2)  ### Drainage Patterns (B10)  ### Mart Deposits (B3)  ### Presence of Reduced Iron (C4)  ### Aqualic Rouse (B3)  ### Aqualic Rouse (B3)  ### Aqualic Rouse (B3)  ### Aqualic Rouse (B3)  ### Aqualic Fauna (B13)  ### Aqualic
NWI classification: In Office Are climate / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation №0, Soil №0, or Hydrology №0 significantly disturbed?  Are Vegetation №0, Soil №0, or Hydrology №0 naturally problematic?  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Weltand Hydrology Present? Yes No No Weltand Hydrology Present? Yes No Pepth (inches): Weltand Hydrology Present? Yes No Depth (inches): Surface Water Hydrology Present? Yes No Depth (inches): Weltand Hydrology Present? Yes No Depth
Are Climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation NO, Soil NO, or Hydrology NO, or Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Hydrology NO, or No No No Is the Sampled Area within a Wetland? Yes No No Within a Wetland? Yes No
Are Vegetation No. Soil Soil Soil or Hydrology Soil Significantly disturbed? Are "Normal Circumstances" present? Yes No.  Are Vegetation No. Soil Soil Soil Soil Soil Soil Soil Soil
Summary OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?   Yes
Hydrophytic Vegetation Present? Yes No X   Is the Sampled Area within a Wetland? Yes No X   Wetland Hydrology Present? Yes No X   If yes, optional Wetland Site ID:   Remarks: (Explain alternative procedures here or in a separate report.)    HYDROLOGY   Wetland Hydrology Indicators:   Secondary Indicators (minimum of Iwo required)   Primary Indicators (minimum of one is required; check all that apply)   Surface Soil Cracks (B6)   Surface Water (A1)   Water-Stained Leaves (B9)   Drainage Patterns (B10)   High Water Table (A2)   Aquatic Fauna (B13)   Moss Trim Lines (B16)   Dry-Season Water Table (C2)   Water Marks (B1)   Hydrogen Sulfide Odor (C1)   Crayfish Burrows (C8)   Saturation (A3)   Hydrogen Sulfide Odor (C1)   Crayfish Burrows (C8)   Saturation Visible on Aerial Imagery (C9)   Drift Deposits (B3)   Presence of Reduced Iron (C4)   Standard or Stressed Plants (D1)   Iron Deposits (B5)   Thin Muck Surface (C7)   Shallow Aquitard (D3)   Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Microtopographic Relief (D4)   FAC-Neutral Test (D5)   Field Observations: Surface Soilary frince)   Wetland Hydrology Present? Yes No Depth (inches):   Wetland Pydrology Present? Yes N
Hydric Soil Present?   Yes
Hydric Soil Present?   Yes
Wetland Hydrology Present?   Yes
HYDROLOGY  Wetiand Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Depth (inches):  Water Table Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes
Wetland Hydrology Indicators:   Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:   Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B1)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Prift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B1)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Prift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B1)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Prift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Pr
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Pr
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Inon Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Marks (B1)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Table Present?  Yes No Depth (inches):  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No
Surface Water (A1)
High Water Table (A2) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No
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:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  No  Wetland Hydrology Present? Yes  No  No  No  No  No  No  No  No  No  N
Drift Deposits (B3)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches):
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches):
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Yes NoX Depth (inches):  Water Table Present? Yes NoX Depth (inches):  Saturation Present? Yes NoX Depth (inches):  (includes capillary fringe)  Wetland Hydrology Present? Yes NoX Depth (inches):
Field Observations:  Surface Water Present? Yes NoX Depth (inches):  Water Table Present? Yes NoX Depth (inches):  Saturation Present? Yes NoX Depth (inches):  (includes capillary fringe)  Wetland Hydrology Present? Yes NoX Depth (inches):
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Wetland Hydrology Present? Yes No
Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches):  (includes capillary fringe)  Wetland Hydrology Present? Yes No _X Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

Tree Stratum (Plot size: '3()'	Absolute	Dominant		Dominance Test worksheet:
		Species?	Status	Number of Dominant Species
1. Painis Serotina	<u>55</u>	<u> Yes</u>	FACH	That Are OBL, FACW, or FAC: (A)
2. Acr Saccherum	45	405	FIREL	
2. Der seecher			1 1 3-01	Total Number of Dominant
3				Species Across All Strata: (B)
A .				Barrel of Barrel and Barrel
,				Percent of Dominant Species That Are OBL FACW or FAC:  (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				
		·		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	100	= Total Cov	er	OBL species
ر ہے ،		- 10(4) 007	01	
Sapling/Shrub Stratum (Plot size: )5'				FACW species O x 2 = O
1. Acer Platanoides	20	Yes	UPL	FAC species
•				FACU species 140 x4= 560
2. FAGUS grandifolia	15	Yes	FACH	
3. Acer Saccherum		405	EHCU	UPL species 30 x5= 150
o. neer secondition			₩ 13-C	Column Totals: 170 (A) 710 (B)
4				
5				Prevalence Index = B/A = 1,17
5			<del></del>	
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	_50_	= Total Cov	er	
Herb Stratum (Plot size:5' )				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		3.4	<b>.</b> .	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Frazions Americana	10	Yes		data in Remarks or on a separate sheet)
2. Ace platanoides	10	Yes	hPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·			711	
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
				Definitions of Variation Strate.
5				Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH
_			***************************************	and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	7.5	= Total Cov		
<b>-</b> 1		. = Total Cov	er	
Woody Vine Stratum (Plot size:)				
1. NOT opplicable				Usedwa who die
2				Hydrophytic Vegetation
				Present? Yes No
3	<del></del>	-	<del></del>	165 NO
4				
		= Total Cov		,
		_ = 10tar Co\	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Depth	Matrix	_	th needed to docum	x Features			
(inches)	Color (moist)	%	Color (moist)		_Loc <sup>2</sup> _	Texture	Remarks
0"15"	10yn 3/4	100				SI	34.
5"-20"	7.5424/6	100				SIL	Çin
				<del></del>	·	this is a second of the second	
						-	
			_				
			<del></del>	<del></del>		***	
						·	
							Section 1
		<del></del>					
							<u> </u>
		letion, RM	=Reduced Matrix, M	S=Masked Sand G	rains.		=Pore Lining, M=Matrix.
lydric Soil I						•	Problematic Hydric Soils <sup>3</sup> :
Histosol	· ·			w Surface (S8) ( <b>LR</b>	RR,		(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B		#I DA 440D		rie Redox (A16) ( <b>LRR K, L, R</b> ) xy Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Black His	stic (A3) n Sulfide (A4)			ace (S9) ( <b>LRR R, N</b> Mineral (F1) ( <b>LRR</b> I			ice (S7) (LRR K, L, M)
	l Layers (A5)		Loamy Gleyed		( <b>L</b> )		Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix				Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su	rface (F6)			anese Masses (F12) (LRR K, L, R)
			Depleted Dark	Surface (F7)		Piedmont	Floodplain Soils (F19) ( <b>MLRA 149</b> E
	lucky Mineral (S1)						U /TAO) /881 DA 444A 445 440D
Sandy G	leyed Matrix (S4)		Redox Depress			Mesic Spo	
Sandy G Sandy R	Bleyed Matrix (S4) Redox (S5)					Mesic Spo Red Parer	nt Material (F21)
Sandy G Sandy R Stripped	eleyed Matrix (S4) Redox (S5) Matrix (S6)	MLRA 149	Redox Depress			Mesic Spo Red Parer Very Shall	
Sandy G Sandy R Stripped Dark Sur	Sleyed Matrix (S4) Sedox (S5) Matrix (S6) rface (S7) (LRR R, I		Redox Depress	sions (F8)		Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Sur	sleyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, I f hydrophytic vegeta	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Sur	Sleyed Matrix (S4) Sedox (S5) Matrix (S6) rface (S7) (LRR R, I	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Sur	sleyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, I f hydrophytic vegeta	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	ow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur  ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur  ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur  ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur  ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur  ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy G Sandy R Stripped Dark Sur  ndicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Stedox (S5) Matrix (S6) Inface (S7) (LRR R, Inface (S7) (LRR R, Inface) Inface (If observed)	tion and w	Redox Depress	sions (F8)	ss disturbed	Mesic Spo Red Parer Very Shall Other (Exp	nt Material (F21) ow Dark Surface (TF12) olain in Remarks)

Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 5 25/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 701
	Section, Township, Range: Town of Harover
	pocal relief (concave, convex, none): Concave Slope (%):
Landroff (missiope, terrace, etc.).	435955 Long: -79.132330 Datum: NAD 83
Soil Map Unit Name: Valo, 5 gravelly 3:17 6	oxim, Reiling NWI classification: UD (and
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation No, Soil No, or Hydrology No significant	
Are Vegetation <u>~o</u> , Soil <u>~o</u> , or Hydrology <u>~o</u> naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Ye No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes <u>★</u> No	If yes, optional Wetland Site ID: Wetland Pole
Remarks: (Explain alternative procedures here or in a separate rep	
account fail (m	nuck) wetland (PEM).
organic sort	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	y Surface Soil Cracks (B6)
Surface Water (A1)	<b>1</b> .
High Water Table (A2) Aquatic Faun	a (B13) Moss Trim Lines (B16)
Saturation (A3) Marl Deposits	s (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Su	
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6)  Zegomorphic Position (D2)
Iron Deposits (B5) Thin Muck St	•
	in in Remarks) Microtopographic Relief (D4)  **State
Sparsely Vegetated Concave Surface (B8) Field Observations:	
Surface Water Present? Yes No Depth (inche	20).
· · · · · · · · · · · · · · · · · · ·	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
Noniano.	
·	

## **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 30; )  1	% Cover	Dominant Indicator Species? Status	Dominance Test worksheet:  Number of Dominant Species That An ORL FACILY or FACI	(4)
2			Total Number of Dominant	(A)
3			Species Across All Strata:	(B)
5			Percent of Dominant Species That Are OBL, FACW, or FAC:(	(A/B)
6			Prevalence Index worksheet:	
		= Total Cover	OBL species x 1 =	_
Sapling/Shrub Stratum (Plot size: 157 )			FACW species x 2 =	_
1. not applicable			FAC species x 3 =	- 1
2			FACU species x 4 =	
3			UPL species x 5 =	
			Column Totals: (A)	(B)
5			Prevalence Index = B/A =	
6			Hydrophytic Vegetation Indicators:	
7			1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover	2 - Dominance Test is >50%	
Herb Stratum (Plot size:5')			3 - Prevalence Index is ≤3.0¹	
1. Onocles Sensibilis	55	Ves FACH	4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet)	orting
2. Impations Coponsis	ho	Yes FACIL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
3. Thelyptois palustris		NO FACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.	ıst
4			Definitions of Vegetation Strata:	
5				
6       7			Tree – Woody plants 3 in. (7.6 cm) or more in diam at breast height (DBH), regardless of height.	neter
8			Sapling/shrub – Woody plants less than 3 in. DBI and greater than or equal to 3.28 ft (1 m) tall.	4
9			Herb - All herbaceous (non-woody) plants, regardless of	of
10			size, and woody plants less than 3.28 ft tall.	"
11	<del></del>		Woody vines – All woody vines greater than 3.28 ft in height.	İ
	100	= Total Cover	neight.	
Woody Vine Stratum (Plot size: 3c')		•		
1. not applicable				
2.			Hydrophytic	
3	***************************************		Vegetation Present? Yes No	
4				
	0	= Total Cover		
Remarks: (Include photo numbers here or on a separate	sheet.)			
				1

Depth	Matrix		th needed to docui	x Feature	s			of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-207	7,542.511	100						Muck-organic Soil
								77.6.
							<del></del>	
<del></del>								
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators	for Problematic Hydric Soils <sup>3</sup> :
🔀 Histosol (	•		Polyvalue Belov	v Surface	(S8) ( <b>LRR</b>	R,		luck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)					Prairie Redox (A16) (LRR K, L, R)
Black His		,	Thin Dark Surfa	ce (S9) ( <b>L</b>	.RR R, ML	.RA 149B)	5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4) Layers (A5)		Loamy Mucky M	lineral (F1	) (LRR K,	L)	Dark S	urface (S7) (LRR K, L, M)
	Below Dark Surface	. (Δ11)	Loamy Gleyed N		)		Polyval	ue Below Surface (S8) (LRR K, L)
	k Surface (A12)	((())	Depleted Matrix Redox Dark Sur					ark Surface (S9) (LRR K, L)
	icky Mineral (S1)	•	Depleted Dark S		7)		Iron-Ma	anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depressi		• •			Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re			·	` ,			Red Pa	rent Material (F21)
	Matrix (S6)							nallow Dark Surface (TF12)
Dark Surfa	ace (S7) ( <b>LRR R, M</b> i	LRA 149B	)					Explain in Remarks)
Indicators of h	ovdrophytic vegetation	on and wel	land hydrology must	. ha maaaa	m4	-1!-4		
Restrictive La	yer (if observed):	on and we	nand nydrology musi	be prese	nt, unless	disturbed (	or problematic.	
Type:	NA							
Depth (inch							Hardet A. H.	Present? Yes X No
Remarks:							Hydric Soil I	Present? Yes No
torrarito,								
,								
								•

Dell Hill Wind Project	Chautaugus County 5)75)11
Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 5)25)16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 70'Z
Investigator(s): B.V.RTS Section	
Landform (hillslope, terrace, etc.): h: 11510PC Local rel	lief (concave, convex, none): Converx Slope (%): 7-3%
Subregion (LRR or MLRA): LRR-R Lat: 42.43 58	47 Long: -79,132347 Datum: NAD 83
Soil Map Unit Name: Valois grovelly 5: It loam,	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	/es ★ No (If no, explain in Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>SO</u> significantly distur	`
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally problem:	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No 🗶	within a Wetland? Yes No 🗡
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
upland poth point	for wetland A616
	·
	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	) Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Oc	
	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
Algal Mat or Crust (B4) Recent Iron Reducti	
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No 🔀
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:
Remarks:	

#### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size:ろ。')	Absolute	Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Tshqa curadensis				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are ORL FACW or FAC:
5	<del></del>			That Are OBL, FACW, or FAC: (A/B)
6			<u> </u>	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
,	100	= Total Cove	∍r	OBL species <u>o</u> x1 = <u>o</u>
Sapling/Shrub Stratum (Plot size: 15')				FACW species
1. Acer succharum	10	405	FIXL	FAC species O x 3 = O
2. TSuga Canaders:s	10	Yes	FACL	FACU species 120 x4= 48c
3				UPL species O x 5 = O
4				Column Totals: 120 (A) (B)
5				Prevalence Index = B/A = 4.0
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	70			2 - Dominance Test is >50%
<b>62.</b> /		= Total Cove	∍r	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. NOT applicable				data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4	<del></del>			be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7	****	***		at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
11,				size, and woody plants less than 3.28 ft tall.
12.				Woody vines - All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·	0	= Total Cov		height.
Woody Vine Stratum (Plot size: 30')		_ TO(a) COV	<b>5</b> 1	
1. <u>not applicable</u>				Hydrophytic
2				Vegetation Present? Yes No
3				Present? Yes No
4				
	<u>e</u>	= Total Cov	er —————	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Description: (Describe to the de	epth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	The state of the s
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
. 4	eafl needie litter	
6"-2" 104R314 10E		ST.
2"-70" 2.54516 100		SIL
¹Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) Black Histic (A3)	MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)	Dark Surface (S7) (LRR K, L, M)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)		Red Parent Material (F21)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14	OB/	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Daik Surface (S7) (ERK K, MEKA 14	30)	Other (Explain III Fernance)
	wetland hydrology must be present, unless disturbed	or problematic.
Restrictive Layer (if observed):		
Type:	_	Hydric Soil Present? Yes No 🗴
Depth (inches):		Hydric Soil Present? Tes No
Remarks:		
,		

Project/Site: Ball Hill Wind Project City/	County: Chautauqua County Sampling Date: 5125116
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 703
Applicant/Owner: Ball Fill Wild Energy, EES  Investigator(s): Sect	The second
Investigator(s): Sect	ion, Township, Range: 1001- 8 1 100 54 5
Landform (hillslope, terrace, etc.): Degression Local re	slief (concave, convex, none): ( Sancoul Slope (%): 6-1%
Subregion (LRR or MLRA): LRR-R Lat: 42, 4370	03C0 Long: 2 79, 132318 Datum: 14AD 00
Soil Map Unit Name: Bust. S. 14 Loan, 3 to 8%	Slapes NWI classification: Lipland
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation $\frac{ND}{ND}$ , Soil $\underline{ND}$ , or Hydrology $\underline{ND}$ significantly distu	V
Are Vegetation $ND$ , Soil $ND$ , or Hydrology $ND$ naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Y. No	Is the Sampled Area
Hydric Soil Present? Yes _ X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: Wetland A615
Remarks: (Explain alternative procedures here or in a separate report.)	
PSS Data Point for w	octland 19615
HYDROLOGY	Control of the Arm (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Water-Stained Lea  X High Water Table (A2) Aquatic Fauna (B1	· · · · · · · · · · · · · · · · · · ·
High Water Table (A2)  Saturation (A3)  Aquatic Fauna (B1)  Marl Deposits (B15)	
Water Marks (B1) — Hydrogen Sulfide (	
	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduc	ced Iron (C4) Stunted or Stressed Plants (D1)
<del></del>	ction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7) Other (Explain in F	Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	, 'I
Water Table Present? Yes No Depth (inches):	e"  Z"  Wetland Hydrology Present? Yes   X No
Saturation Present? Yes No Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos,	
Remarks:	

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>ろら</u> )		Species?		Dominance Test worksheet:
1noTPeplicable				Number of Dominant Species That Are OBL FACW as FAC:
•				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 75 (A/B)
5	-			(30)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	_	= Total Cov		OBL species x 1 =
( , , , )		- Total Cov	· <del>C</del> i	1
Sapling/Shrub Stratum (Plot size: \\5')				FACW species x 2 =
1. Cornus amonum	<u> 30</u>	<u>Yes</u>	FACW	FAC species x 3 =
2. Cornus alba	10	Yes	FACLI	FACU species x 4 =
				UPL species x 5 =
3. Rubus allegheniensis			FALL	Column Totals: (A) (B)
4				, ,
5				Prevalence index = B/A =
				Hydrophytic Vegetation Indicators:
6				
7			<del></del>	1 - Rapid Test for Hydrophytic Vegetation
	50	= Total Cov	er	2 - Dominance Test is >50%
Herb Stratum (Plot size:5')				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	س مسر			4 - Morphological Adaptations¹ (Provide supporting
1. Loinus amomum	<u>-55</u>	Yes	FREW	data in Remarks or on a separate sheet)
2. Alous Seconlata	15	<u>no</u>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Onoclea Sensibilis		20	FACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Solidago rugosa	10		FAC	
5. Rubus allegheniensis	<u> </u>		FACH	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7			·	
8		<del></del>		Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
			<del></del>	size, and woody plants less than 3.28 ft tall.
11	• • • • • • • • • • • • • • • • • • • •			Woody vines – All woody vines greater than 3.28 ft in
12				height.
	100	= Total Cov	/er	
W 1 15 00 / 45 1 1 2 8 /		rotal oct		
Woody Vine Stratum (Plot size: 3≿′)				
1. not applicable				
2				Hydrophytic
_				Vegetation   Present? Yes No
3				100 NO
4				
	6	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			
	•			

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence o	of indicators.)
Depth	Matrix			x Feature	<u>s</u>	1 2	Taster	Remarks
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0"-12"	7,54311	95	542416	_5_	<u> </u>	<u>m</u> .	SIL	
			<del></del>					
				<u> </u>				
¹Type: C=Ce	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil					-,	,		for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) ( <b>LR</b>	R R,		luck (A10) ( <b>LRR K, L, MLRA 149B</b> )
,	oipedon (A2)		MLRA 149B	•				Prairie Redox (A16) (LRR K, L, R)
	stic (A3)	_	Thin Dark Surfa					flucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L, M)
1	n Sulfide (A4) d Layers (A5)	-	Loamy Mucky I Loamy Gleyed	-		L, L)		lue Below Surface (S8) (LRR K, L)
	d Below Dark Surface	- (A11)	Depleted Matri:		-)			ark Surface (S9) (LRR K, L)
	ark Surface (A12)		∠ Redox Dark Su		)		Iron-M	anganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)	_	Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)	_	Redox Depress	sions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							arent Material (F21) hallow Dark Surface (TF12)
	Matrix (S6) rface (S7) ( <b>LRR R, N</b>	II RA 149R)						(Explain in Remarks)
Dank ou	11400 (07) (=1411)							,
	f hydrophytic vegetat		and hydrology mu	st be pres	ent, unles	s disturbed	or problemation	D
Restrictive	Layer (if observed):							
Type:								· <del>*</del>
Depth (in	ches):	<del></del>					Hydric Soil	Present? Yes X No No
Remarks:					•			
}								
,								

#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: Ball Hill Wind Project City/County: Chautauqua County Sampling Date: 5126116 Applicant/Owner: Ball Hill Wind Energy, LLC State: NY \_\_ Sampling Point: DP- 704 Investigator(s): B. VIRTS, S. Buckermayer Section, Township, Range: Town of Honorer Landform (hillslope, terrace, etc.): Departs on Local relief (concave, convex, none): Concave Slope (%): 40% Subregion (LRR or MLRA): LRR-R Lat: 42, 447164 Long: -79.102326 Datum: NAD 83 Soil Map Unit Name: Chautangua Silt loam, 8 to 15% Slopes NWI classification: UPland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes \_\_\_\_\_\_ No\_\_\_\_\_ Are Vegetation No., Soil 100, or Hydrology NO. significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation <u>~°</u>, Soil <u>~°</u>, or Hydrology <u>~°</u> naturally problematic? SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes \_\_\_\_\_ No within a Wetland? Hydric Soil Present? Wetland Hydrology Present? If yes, optional Wetland Site ID: westend A618 Remarks: (Explain alternative procedures here or in a separate report.) PFO Desta Point For Isolated westernd System HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) ✓ Drainage Patterns (B10) ✓ Water-Stained Leaves (B9) \_\_ Surface Water (A1) \_\_\_ Aquatic Fauna (B13) \_\_\_ Moss Trim Lines (B16) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) \_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Crayfish Burrows (C8) \_\_\_ Water Marks (B1) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) \_\_\_ Stunted or Stressed Plants (D1) \_\_\_ Presence of Reduced Iron (C4) \_\_\_ Drift Deposits (B3) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) \_\_\_ Geomorphic Position (D2) \_\_\_ Algal Mat or Crust (B4) \_\_\_ Thin Muck Surface (C7) Shallow Aquitard (D3) \_\_\_ Iron Deposits (B5) ★ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) X Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Yes No Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_ No \_\_ \_\_ Depth (inches): 16" Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION - Use scientific frames of plants	•			Sampling Point
Tree Stratum (Plot size: 30 )	Absolute	Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Acer Suchan	30			That Are OBL, FACW, or FAC: (A)
2. Whoms americana	_5	<u> 100</u>	FACU	Total Number of Dominant
3	<del></del>			Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				
				Prevalence Index worksheet:
7	35	= Total Cov		
1		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: \csi )				
1. Aver Saccharum	10	485	TACH	FAC species
2				UPL species x 5 =
3				Column Totals: 85 (A) 215 (B)
4.				Column Totals: 05 (A) 213 (B)
				Prevalence Index = B/A = $2.53$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				× 2 - Dominance Test is >50%
	10	= Total Cov	er er	X 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:)				4 - Morphological Adaptations¹ (Provide supporting
1. Glyceria acutiflora	20	Yes	OBL	data in Remarks or on a separate sheet)
2. Carex Flavo			OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Juncus effusus	5	NO	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Oroclea Sersibilis	5	20	FACW	be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
5				Definitions of Vegetation outlata.
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7		<del></del>		at breast height (DDH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 3.26 it (1 iii) tail.
10				Herb - All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
			·	Woody vines - All woody vines greater than 3.28 ft in
12	114			height.
201	40	= Total Co	ver	
Woody Vine Stratum (Plot size: 3c')				
1. not Applicable		·	<del></del>	
2				Hydrophytic Vegetation
3		••••		Present? Yes No
4.				
	G	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate			· · · · · ·	
, , , , , , , , , , , , , , , , , , , ,	,			
Trees one prin	سمحذاب	سنا ،	: red	to amouth on
		•		1.000111
micro topographic	- 1-51	ns.		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			x Features	· 1	. ,	Tankan	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	_Loc*_	Texture Remarks	<del></del>
	uf 11 Her							
<u>0'-2"</u>	104×211	100%					SIL	
<u>z</u>	1092311	85%	ioyrelz	15%	<u>a</u>	<u>~</u>	<u>5IC</u>	
7"-18"	10y26/2	90%	wyr wlb	10%	<u>`</u>	<u>~</u>	5IC	
, ,								
1Type: C=C	oncentration, D=Dep	letion RM:	Reduced Matrix M	S=Masked	Sand G	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil			TOUGOS INIGUIA, IV	- Maskeu	. Juniu Gi		Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surface	(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	)
Histic E	pipedon (A2)		MLRA 149B	•			Coast Prairie Redox (A16) (LRR K, L, R)	
	istic (A3)		Thin Dark Surf					R)
Į.	en Sulfide (A4)		Loamy Mucky			(, L)	Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)	
	d Layers (A5) d Below Dark Surface	o (A11)	Loamy Gleyed Depleted Matri		3)		Thin Dark Surface (S9) (LRR K, L)	
	ark Surface (A12)	3 (A11)	Kedox Dark S				Iron-Manganese Masses (F12) (LRR K, L	. R)
	Mucky Mineral (S1)		Depleted Dark				Piedmont Floodplain Soils (F19) (MLRA 1	
	Gleyed Matrix (S4)		Redox Depres		•		Mesic Spodic (TA6) (MLRA 144A, 145, 14	
	Redox (S5)						Red Parent Material (F21)	
	d Matrix (S6)						Very Shallow Dark Surface (TF12)	
Dark Su	ırface (S7) (LRR R, N	MLRA 1498	3)				Other (Explain in Remarks)	
<sup>3</sup> Indicators o	of hydrophytic vegetat	tion and we	etland hydrology mu	ıst be presi	ent, unles	s disturbe	d or problematic.	
Restrictive	Layer (if observed):							
Type:		<del> </del>					· ·	
Depth (in	ches):			***			Hydric Soil Present? Yes X No	
Remarks:								
. ,								

	Observance County
	ounty: Chautauqua County Sampling Date: 5)26/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-7c5
Investigator(s): B. Vints S. Bucheninger Section	n, Township, Range: Town of I-knower
Landform (hillslope, terrace, etc.); Depression Local relie	ef (concave, convex, none): Slope (%): O%
Subregion (LRR or MLRA): LRR-R Lat: 42.447.	097 Long: -79, 162548 Datum: NAD 83
Soil Map Unit Name: Chantangua S: 11 10am Etols	% Sleas NWI classification: VPIGE &
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	· ·
Are Vegetation 100, Soil 100, or Hydrology 110 significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No  Yes No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: <u>いとれたる 特色1名</u>
Remarks: (Explain alternative procedures here or in a separate report.)	ii yos, optional vvoltaria otto isi
1 ' ' '	
PEM Dute Station For	Wetlend AG18
	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	ior (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospher	
Drift Deposits (B3) Presence of Reduce	
★ Algal Mat or Crust (B4)     Recent Iron Reduction	on in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (	C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Fleld Observations:	
Surface Water Present? Yes No X Depth (inches):	
	5"
Saturation Present? Yes X No Depth (inches): C	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, principle (includes capillary fringe)	evious inspections), if available:
Describe Modera Batta following adding the man and a series of the	
Remarks:	
	N &

Tree Stratum (Plot size:)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. not applicable			<del></del>	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	<del></del>			That Are OBL, FACW, or FAC: (A/B)
6				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
				OBL species x1 =
	<del></del>	- 10tal CO	Vei	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. NOT applicable	<u></u>			FAC species x 3 =
2				FACU species x 4 =
	•			UPL species x 5 =
3		<del></del>		Column Totals: (A) (B)
4				5 1 1 50
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
1		= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:5')				4 - Morphological Adaptations¹ (Provide supporting
1. Carex Flava	65	405	<b>6</b> 30	data in Remarks or on a separate sheet)
2. Scirpus experios		•	<u> </u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Z. Jennis cypesnas	\ 0	1.0		
3. Thelypteris palustris	10	<u> </u>		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Typha latifolia		no	OBL	be present, unless disturbed or problematic.
5. Throus effusus	5_	no	OBL	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				Carllanda bank Wand plants band the O. ( BB)
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and ground than or oqual to one it (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
11		******		size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
12	*********	F		height.
	95	= Total Co	ver	
Woody Vine Stratum (Plot size:				
1. NOT Applicable				
	<del></del>			Hydrophytic
2	<u> </u>		<del></del>	Vegetation
3,				Present? Yes X No
4.				
	Ò	= Total Co		
Remarks: (Include photo numbers here or on a separate		10(a) 00		
Remarks. (include photo humbers here of on a separate	311661.)			

Profile Desci	ription: (Describe	to the dep	th needed to docun	ent the i	ndicator	or confirm	the absence	of indicators.)		
Depth	Matrix			c Features	§ _ 1	, 2	T	Damandea		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc*	Texture	Remarks		
1 inch	- Ley 1. H	<u>er</u>								
0"-2"	mucky	Pect	Layer							
2"-10"	2.542.511	80%	10y23/2	70%	<u>D</u>	<u>~</u>	SIL			
		·				<del></del>				
						·				
<del></del>										
1Typo: C=C=	ncentration D-D-	letion PA	=Reduced Matrix, MS		Sand G		<sup>2</sup> l ocation	: PL=Pore Lining, M=Matrix.		
Hydric Soil I		netion, RM	-iveduced Matrix, Mi	J-IVIASKEC	oanu Gr	allio.		for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov	w Surface	(S8) (LR	R R,	2 cm M	fuck (A10) (LRR K, L, MLRA 149B)		
	ipedon (A2)		MLRA 149B					Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa					flucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Mucky N			(, L)	-	urface (S7) (LRR K, L, M) lue Below Surface (S8) (LRR K, L)		
✓ Stratified  Depleted	Layers (A5) Below Dark Surfac	o (A11)	Loamy Gleyed Depleted Matrix		()			ark Surface (S9) (LRR K, L)		
	rk Surface (A12)	e (ATT)	Redox Dark Su		<b>L</b>			anganese Masses (F12) (LRR K, L, R)		
	ucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)		
	leyed Matrix (S4)		Redox Depress		.,			Spodic (TA6) (MLRA 144A, 145, 149B)		
	edox (S5)			` ,				arent Material (F21)		
	Matrix (S6)						Very S	Very Shallow Dark Surface (TF12)		
Dark Sur	face (S7) (LRR R, I	MLRA 1491	<b>B</b> )				Other (Explain in Remarks)			
			etland hydrology mus	st be pres	ent, unles	s disturbed	d or problemation	o		
Restrictive L	.ayer (if observed)	:								
Type:								v v v		
Depth (inc	:hes):						Hydric Soil	Present? Yes X No		
Remarks:										
,										
,										

Project/Site: Ball Hill Wind Project City/C	county: Chautauqua County Sampling Date: 5)26/16
	State: NY Sampling Point: DP- 706
Investigator(s): 3. Vizzs, 5. Buduneur Section	
Landform (hillslope, terrace, etc.): 1977-ce Local reli	ief (concave, convex, none): F1c+ Slope (%): O-1 %
Subregion (LRR or MLRA): LRR-R Lat: 42, 447 4	
Soil Map Unit Name: CHARUTALONA S: 1+ Lona, 8 1015	Cio Slipes NWI classification: UPI and
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly distur	bed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation $\frac{NO}{NO}$ , Soil $\frac{NO}{NO}$ , or Hydrology $\frac{NO}{NO}$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ➤	Is the Sampled Area
Hydrophytic Vegetation Present? Yes No ★ Hydric Soil Present? Yes No ★	within a Wetland? Yes No ×
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	n you, optional violatic one in
upland Deta Point For w	vetic 1 Acro
UPTARE DEAL POINT	11018.
	· · · · · · · · · · · · · · · · · · ·
HYDROLOGY	•
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Oc	
	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	, ,
. ,	on in Tilled Soils (C6) Geomorphic Position (D2)  C7) Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck Surface ( Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	1710 Hodilar 1881 (20)
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present?  Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No 🚣
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro-	evious inspections), if available:
Remarks:	
No hydrology indicators meets	
The high resign motions in	
	1

VEGETATION - Ose scientific flattles of plattis	•		Sampling Folit59
Tree Stratum (Plot size: 30')	Absolute		Dominance Test worksheet:
		Species? Status	Number of Dominant Species
1. TShga canadensis	-	YES FACE	That Are OBL, FACW, or FAC: (A)
2. Acer Sauchann		NO FACU	Total Number of Dominant
3	<del></del>		Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
6			Described in the second
7			Prevalence Index worksheet:  Total % Cover of: Multiply by:
		= Total Cover	
15.7		- Total Cover	FACW species
Sapling/Shrub Stratum (Plot size: 15 <sup>7</sup> )			FAC species
1. Pot applicable			FACU species 120 x4 = 480
2	<del></del> ,		UPL species
3			Column Totals: 120 (A) 480 (B)
4			
5			Prevalence Index = B/A = (1.0
6			Hydrophytic Vegetation Indicators:
		<del></del>	1 - Rapid Test for Hydrophytic Vegetation
7	0		2 - Dominance Test is >50%
٠ ١		= Total Cover	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ')			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. TShaa conadentis	0	Yes Foch	data in Remarks or on a separate sheet)
2. Ace Southour	_5	Yes FACE	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Fogus gandisolia	_5_	YES FACE	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
			Too Mandagle de Cir (7.0 an) and a cir R
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7			O Production of the Control of the C
8			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			
10			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			
12			Woody vines – All woody vines greater than 3.28 ft in height.
	20	= Total Cover	
Woody Vine Stratum (Plot size: 30')			
1. NOT (PALICABLE			Hydrophytic
2			Vegetation
3	<del></del>		Present? Yes No
4			
	_0_	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		
h/2 h d at 11 10-11-4600			
No hydrophytic vegetation			
·			

Profile Desc	ription: (Describe t	to the dep	th needed to docun	nent the ir	ndicator	or confirm	the absence of	findicators.)
Depth	Matrix			k Features	<u>.</u> 1	2	<b>T</b> 4	Domerko
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc	<u>Texture</u> _	Remarks
0"15"	1042416	100					<u> </u>	
15"-17"	1048-518	100					<u> </u>	
		<del></del>						
							<del></del> -	
							2, ,,,,	Di Dani Linian MaMarin
Type: C=Co		letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surface	(S8) (I R	R R		uck (A10) (LRR K, L, MLRA 149B)
i —-	pipedon (A2)		MLRA 149B		(00) (21)	,		rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa	•	RR R, M	LRA 149B)		ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky I			(, <b>L</b> )		Irface (S7) (LRR K, L, M)
,	l Layers (A5)	o (A11)	Loamy Gleyed Depleted Matrix		!)			ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L)
	i Below Dark Surfac ark Surface (A12)	e (A11)	Redox Dark Su					nganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark				Piedmo	nt Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depress	sions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	ledox (S5)							rent Material (F21)
	Matrix (S6)	MI DA 440	D\					nallow Dark Surface (TF12) Explain in Remarks)
Dark Su	rface (S7) (LRR R, I	VILICA 145	<b>D</b> )				Outer (	Explain in Foliatio)
3Indicators o	f hydrophytic vegeta	tion and w	etland hydrology mu	st be pres	ent, unles	s disturbed	or problematic.	
Restrictive	Layer (if observed)				_			
Type:								<b>~</b>
Depth (in	ches):						Hydric Soil	Present? Yes No X
Remarks:		,						
	Anger	Refus	ce 0 17"					
	•	,						
				,				
,								
								_

Project/Site: Ball Hill Wind Project City/Co	ounty: Chautauqua County Sampling Date: 5)26)16				
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 708				
Investigator(s): B. Virts S. Buckenmus Section	n. Township, Range: Town of Harriver				
Investigator(s): B.V.RTS S. Buckennya Section  Landform (hillslope, terrace, etc.): H.NSIo pe Local relia  Subregion (LRR or MLRA): LRR-R Lat: 42.4514  Soil Map Unit Name: Chencus governy Score, 8to 15  Are climatic / hydrologic conditions on the site typical for this time of year? You have Vegetation O, Soil or Hydrology o naturally problems  SUMMARY OF FINDINGS – Attach site map showing same  Hydrophytic Vegetation Present? Yes X No Hydrology results No Yes No	Slope (%): 5 %  Slope (%): 5 %  Slope (%): 5 %  Datum: NAD 83  SWOS Long: -79,103368 Datum: NAD 83  SWOS Long: -79,10368 Datum: NAD 83  SWOS Lo				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: we + 1 and A619				
Hillside gw seep dis	etrge wettered PEM				
HYDROLOGY	Secondary Indicators (minimum of two required)				
Wetland Hydrology Indicators:	Surface Soil Cracks (B6)				
Primary Indicators (minimum of one is required; check all that apply)					
Surface Water (A1) Water-Stained Leave X High Water Table (A2) Aquatic Fauna (B13)					
	Dry-Season Water Table (C2)				
Sediment Deposits (B2) Oxidized Rhizospher Drift Deposits (B3) Presence of Reduce	· , —				
Algal Mat or Crust (B4) Recent Iron Reduction					
Algal Mat of Crust (B4) Recent Not Needed.					
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Re					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _K Depth (inches):					
Water Table Present?  Yes   No   Depth (inches): 5	<i>'</i> 1				
Saturation Present? Yes \( \sigma \) No Depth (inches):	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr					
Remarks:					

Tree Stratum (Plot size: 30')	Absolute			Dominance Test worksheet:
Troo statum (Frot size:		Species?		Number of Dominant Species
1. not applicable				That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Total Number of Dominant Species Across All Strata: (B)
				(D)
4				Percent of Dominant Species That Are OBL FACW or FAC:
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence index worksheet:
7	<del></del>			Total % Cover of:Multiply by:
		= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. POT Applicable				FAC species x 3 =
1. No I ISPI, CAPIE	<del></del>			FACU species x 4 =
2		***************************************		
3				UPL species x 5 =
				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6			<del></del>	]
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0 <sup>1</sup>
l		V	Ca .	4 - Morphological Adaptations (Provide supporting
1. Equisetum palustre	40	Yes		data in Remarks or on a separate sheet)
2. Onoclea Sensibilis	25	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Corex gynandra	10	20	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Mentha X piper: ta	10	100	OBL	be present, unless disturbed or problematic.
5. Ranunculus acris	5	NO	FAC	Definitions of Vegetation Strata:
6. Supotosium perfoliatum	5	NO	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
		100		at breast height (DBH), regardless of height.
7. Parker aurea			<u>PACW</u>	•
8	<del></del>		<del></del>	Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	100	= Total Cov	'Ar	
Woody Vine Stratum (Plot size:ろり)		1014,001	0.	
1. Not applicable				
2.				Hydrophytic
3				Vegetation Present? Yes No
3				11030HC1 103_H NO
4			·	
	_0	= Total Cov	er er	
Remarks: (Include photo numbers here or on a separate	sheet.)			······································
	•			
				·
				·

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			x Feature	<u>s</u>	•					
(inches) 0'44''	Color (moist)	%	Pect	%	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>		Remarks		
					<del></del>	<del></del> •					
4"-8"	Z.5y 311	<u>98</u>	109R614		_ <u> </u>	<u>~</u>	<u> </u>	····			
			J				•				
									······································		
									· · · · · · · · · · · · · · · · · · ·		
<del></del>	<del> </del>								····		
		*****									
						<del></del>		<del></del>			
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.			ning, M=Matr		
Hydric Soil I							Indicators for		-	ľ	
Histosol	• •		Polyvalue Belov		(S8) ( <b>LR</b> i	RR,			RR K, L, MLF		
Histic Ep	oipedon (A2)		MLRA 149B; Thin Dark Surfa		RRR MI	RA 149R)			: (A16) ( <b>LRR</b> I : Peat (S3) ( <b>L</b> I		
	n Sulfide (A4)		Loamy Mucky M			-		•	LRR K, L, M)		
	Layers (A5)		Loamy Gleyed					Polyvalue Below Surface (S8) (LRR K, L)			
	l Below Dark Surface	(A11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)				
	ark Surface (A12)		✓ Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L, R)				
	lucky Mineral (S1) ileyed Matrix (S4)		Depleted Dark				Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	ledox (S5)		Nedox Depress	510115 (1 0 <i>)</i>			Red Parent Material (F21)				
	Matrix (S6)						Very Shallow Dark Surface (TF12)				
Dark Su	rface (S7) ( <b>LRR R, M</b>	ILRA 149	<b>B</b> )				Other (Explain in Remarks)				
<sup>3</sup> Indicators of	f hydrophytic vegetati	ion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	or problematic.				
Restrictive L	_ayer (if observed):										
Type:									1.4		
Depth (inc	ches):						Hydric Soil Pr	esent?	Yes	No	
Remarks:	•										
,											
										Ì	

Project/Site: Ball Hill Wind Project City/C	County Chautaugua County Sampling Date: 5)2616
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 709
Investigator(s): B. Vizts S. Buchenne yer Section	
- · · · · · · · · · · · · · · · · · · ·	
Landform (hillslope, terrace, etc.): H: 115 1c 2c Local reli Subregion (LRR or MLRA): LRR-R Lat: 42. 45 2c	271 Long: -79, 143683 Datum: NAD 83
Subregion (ERR of MERA)	Datum, Da
Soil Map Unit Name: Cherango gravelly loam 8	TO 15% 5105% 5 NWI classification: CF1868
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation No, Soil NO, or Hydrology NO significantly distur	
Are Vegetation <u><math>\mathcal{N}</math> 3</u> , Soil $\mathcal{N}$ or Hydrology $\mathcal{N}$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No メ	Is the Sampled Area
Hydric Soil Present? Yes No ×	within a Wetland? Yes No 🗡
Wetland Hydrology Present? Yes No 🗴	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
upland Duta poin	+ for wethered A619.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	
Sediment Deposits (B2) Oxidized Rhizospher	
Drift Deposits (B3) Presence of Reduced Algal Mat or Crust (B4) Recent Iron Reduction	. ,
Iron Deposits (B5) Thin Muck Surface (6	, , , .
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rel	,
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	· ·
Saturation Present? Yes No _> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
No hydrology Indicator found / 06:	served.

VEGETATION - Ose scientific flames of plants	•			
Tree Stratum (Plot size: 30;	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> 5	Species?		Number of Dominant Species
1. Malus Princifolia		Y&S	<u>ur</u>	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant 5
3				Species Across All Strata: (B)
4.				Percent of Dominant Species
•				That Are OBL, FACW, or FAC: 46 (A/B)
5		·		
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	5	= Total Cov	er er	OBL species
Sapling/Shrub Stratum (Plot size: 15' )				FACW speciesO x 2 =O
1. Rosa multiflora	15	Y-es	POC	FAC species 80 x3 = 240
<u> </u>				FACU species 35 x4= 148
2				UPL species
3				Column Totals: 120 (A) 405 (B)
4				77 77
5				Prevalence Index = B/A = 3,37
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
~ /	15	= Total Co	/er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5')				4 - Morphological Adaptations¹ (Provide supporting
1. Entrania gramini Folia	40	Yes	FAC	data in Remarks or on a separate sheet)
2. Solidago Canadensis	15	Yes	FACL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Ipomoea carrica	15	Yes	FACL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
_ •		No		be present, unless disturbed or problematic.
4. Ranunculus acris		NO NO	FAC	Definitions of Variation Streets
5. Galium Doreale.	10		FAC	Definitions of Vegetation Strata:
6. Alliaria petiolata	5_	70	FACH	Tree Woody plants 3 in. (7.6 cm) or more in diameter
7. Fragaria Virginiana	5_	20	FAL	at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
		-	<u> </u>	Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12			-	height.
	100	= Total Co	ver	
Woody Vine Stratum (Plot size: 30')				
1. not spoticable			<del></del>	Hydrophytic
2				Vegetation
3				Present? Yes No
4				
	0	_ = Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			

	ription: (Describe to	o the dep				or confirm	the absence of	of Indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0"-20"	104R3/6	100					SI	
0 00	11-310							
	**************************************							
	***************************************							
						-		
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil !								for Problematic Hydric Solls <sup>3</sup> :
Histosol	• •		Polyvalue Belov		(S8) ( <b>LRI</b>	R,		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		DD D 14	DA 440D)		Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3) in Sulfide (A4)		Thin Dark Surfa					ucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L, M)
	Layers (A5)		Loamy Gleyed			, <b>-</b> ,		ue Below Surface (S8) (LRR K, L)
-	Below Dark Surface	(A11)	Depleted Matrix		,		-	ark Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su	rface (F6)				anganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark		7)			ent Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	ledox (S5) Matrix (S6)							rent Material (F21) nallow Dark Surface (TF12)
	rface (S7) ( <b>LRR R, M</b>	LRA 149E	3)					Explain in Remarks)
	(0,7) (=1.11.14)		-,					
	f hydrophytic vegetati	on and we	tland hydrology mus	st be prese	nt, unles	s disturbed	or problematic.	
Restrictive I	Layer (if observed):							
Type:								×
Depth (inc	ches):						Hydric Soil	Present? Yes No _X
Remarks:								
	. / . i							
	Nota h	dre	Soil.					

Project/Site: Ball Hill Wind Project	City/County: Chautauqu	ua County Sampling Date: 5) ZEIL
Applicant/Owner: Ball Hill Wind Energy, LLC		State: NY Sampling Point: DP-710
Investigator(s): B. VIRTS S. Bucken		
Landform (hillslope, terrace, etc.): Hills to be	Local relief (concave, convex,	, none): Corcine Slope (%): 0-19
Subregion (LRR or MLRA): LRR-R Lat:		
Soil Map Unit Name: Collans S: 1+ 1 acr	~ ,8t015% Slopes	NWI classification: UPIend
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation $NO$ , Soil $NO$ , or Hydrology $NO$ s	gnificantly disturbed? Are "No	rmal Circumstances" present? Yes No
Are Vegetation $\stackrel{\triangleright \mathcal{O}}{}$ , Soil $\stackrel{\triangleright}{}$ , or Hydrology $\stackrel{\triangleright}{}$ n		ed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X	is the Sampled Ar	
Hydric Soil Present? Yes X	within a Wetland?	Yes X No
Wetland Hydrology Present? Yes N	If yes, optional Wet	tland Site ID: Wetland B670
Remarks: (Explain alternative procedures here or in a sep	arate report.)	
Per wetto an agri	rd forms from cultural ford.	the outfall from
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all	hat apply)	Surface Soil Cracks (B6)
Surface Water (A1) Wat	er-Stained Leaves (B9)	Drainage Patterns (B10)
───────────────────────────────────	atic Fauna (B13)	Moss Trim Lines (B16)
	Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hyd	rogen Sulfide Odor (C1)	Crayfish Burrows (C8)
1 —		(C3) Saturation Visible on Aerial Imagery (C9)
1	ence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
. ,	ent Iron Reduction in Tilled Soils (C6) Muck Surface (C7)	) Geomorphic Position (D2) Shallow Aquitard (D3)
. , ,	er (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	(Explain in Nomano)	✓ FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No De	oth (inches):	
Water Table Present? Yes X No De		
Saturation Present? Yes X No De		and Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well,	gerial photos, previous inspections).	if available:
Describe Necorded Data (stream gadge, monitoring work	donar priotoc, providuo mepocacine,	
Remarks:		

Tree Stratum (Plot size: 3 c ')	Absolute Dominant In % Cover Species?	Dominance lest worksheet:
1. DUT APPICABLE		Number of Dominant Species
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		1
5	<del></del>	That Are OBL, FACW, or FAC: 'OG (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \\$')		FACW species x 2 =
1. not populable		FAC species x 3 =
2		FACU species x 4 =
	•	UPL species x 5 =
3		Column rotals (A) (B)
4		Prevalence Index = R/A =
5		
6		Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
•	C = Total Cover	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5')  1. Crocles Sessibilis	35 Yes	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Equise tum palustre		
3. Impations appensis		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Typha latifolia		
5. Carex gynandia	10 NO 6	Definitions of Vegetation Strata:
6. Solidago rugosa	5 100	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Rubus allegheniensis	<u> </u>	at breast height (DBH), regardless of height.
8. Rannaculus acris	5 NO	Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than or equal to 3.28 ft (1 m) tall.
10		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		size, and woody plants less than 3.28 it tail.
12		Woody vines – All woody vines greater than 3.28 ft in height.
	100 = Total Cover	-
Woody Vine Stratum (Plot size: 30')	- 10tai 0010t	
4		
	<del></del>	Hydrophytic
2		Vegetation
3		Present? Yes No
4		
	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)	
		,

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Indicators.)								
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0"-8"	2.54311	90	107R518	10%	C	$\sim$	SIL	
l ———								
	-							
	-							
				<del></del>	·····			
							<del></del>	
		,						
1							2	
	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	RR,		Muck (A10) (LRR K, L, MLRA 149B)
1	oipedon (A2) istic (A3)		MLRA 149B Thin Dark Surfa		DD D 14	I DA 140D\		Prairie Redox (A16) ( <b>LRR K, L, R</b> )  Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
1	en Sulfide (A4)		Loamy Mucky N					Surface (S7) (LRR K, L, M)
	d Layers (A5)		Loamy Gleyed	-		·, ·/		alue Below Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)	Depleted Matrix		•			Dark Surface (S9) (LRR K, L)
1	ark Surface (A12)	` '	Redox Dark Su					langanese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F	7)		Piedm	ont Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
1	Redox (S5)							arent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 149E	3)				Other	(Explain in Remarks)
3indiantors o	f hydrophytic vegetat	lan and	والمساورة المسالة		-41	استحاسينا مالم		_
	Layer (if observed):		maria nyarology ma	st be prese	nt, unies	s disturbed	or problemate	С.
1	•							
Type:								I Present? Yes X No
Depth (in	ches):						Hydric Soil	I Present? Yes _X_ No
Remarks:								
,								

Project/Site: Ball Hill Wind Project City	//County: Chautauqua County Sampling Date: ち)てらりら				
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-741				
	ction, Township, Range: Town of Hanever				
	relief (concave, convex, none): Slope (%): Z - 4 %				
	6 421 Long: -79, 104889 Datum: NAD 83				
Soil Map Unit Name: Cullamer Silt loam, Bito	Solo Slopes NWI classification: UPICAD				
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly dis	turbed? Are "Normal Circumstances" present? Yes 💥 No				
Are Vegetation <u>ゃ</u> と, Soil <u>ゃと</u> , or Hydrology <u>v</u> anaturally proble					
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes No X	within a Wetland? Yes No 🗡				
Wetland Hydrology Present? Yes No ×	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)	if yes, optional violatid one is:				
UPland Duta Point f	or Wetland 116Co.				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Lea					
High Water Table (A2) Aquatic Fauna (B1					
Saturation (A3) Marl Deposits (B1					
Water Marks (B1) Hydrogen Sulfide					
1 — "	neres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ced Iron (C4) Stunted or Stressed Plants (D1)				
Drift Deposits (B3) Presence of Redu	ction in Tilled Soils (C6) Geomorphic Position (D2)				
Algal Mat or Crust (B4) Recent Iron Reduction Iron Deposits (B5) Thin Muck Surface	-				
Inundation Visible on Aerial Imagery (B7) Other (Explain in I					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes NoX Depth (inches):					
Water Table Present? Yes No Depth (inches):					
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:				
Remarks:					
Remarks.					
	·				

	Absolute	Da!	Indiantas	T
Tree Stratum (Plot size: 30')		Dominant Species?		Dominance Test worksheet:
5				Number of Dominant Species
1. not applicable		<del></del>		That Are OBL, FACW, or FAC: (A)
2.				
	<del></del>			Total Number of Dominant Species Across All Strata: (B)
3				Species Across All Strata: (B)
4				Percent of Dominant Species
,	<del></del>			That Are OBL, FACW, or FAC: (A/B)
5	<del></del>			(10b)
6				Bl.
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
_	O	= Total Cov	er	OBL species x 1 =
5				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15)				I
1. not applicable				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				
				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
				Understation Indicators
6				Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
. ,		= Total Cov	ег	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5')				1
1. Euthania graminifolia	<i>5</i> 55	Y e5	FAC.	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				, , , , ,
2. Galium boreale	15	<u>~~~</u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Egnisetum palustre	10	<b>~3</b> //	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		1-0		be present, unless disturbed or problematic.
4. Trifolium repens	(0	<u> </u>	FACK	bo produit, unloss distarsed of problematic.
5. Pananculus acris	5	NO	FAL	Definitions of Vegetation Strata:
	C:			
6. Posci multiflora	<u></u>	40	FAL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
				Sapling/shrub – Woody plants less than 3 in. DBH
8			<del></del>	and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 5.20 it (1 iii) tail.
				Herb - All herbaceous (non-woody) plants, regardless of
10		<del></del>		size, and woody plants less than 3.28 ft tall.
11,				
				Woody vines - All woody vines greater than 3.28 ft in
12			<del></del>	height.
	100	= Total Cov	er	
Woody Vine Stratum (Plot size: 30')		-		
Woody Vine Stratum (Plot size: 50)				
1. not applicable				
				Hydrophytic
۷				Vegetation
3				Present? Yes No
4				
4				
	0	_ = Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			
	,			

Profile Desc	ription: (Describe	to the dep	th needed to docu	nent the in	dicator	or confirm	the absence of	of Indicato	rs.)	
Depth	Matrix		Redo	x Features		•				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	<del></del>	Remarks	<del></del> [
0"15"	1042413	98	104/25/6	2%			<u> 5工</u>	•		
15"-20"	104/26/60	100					SIL			
	J									
	<del></del>									
			<del></del>							
							<u></u>			
		<del></del>						<del></del>		
							<del></del>	<del></del>		
<sup>1</sup> Type: C=Co	oncentration, D=Dep	etion, RM:	=Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore	Lining, M≐Matrix.	
Hydric Soil I									natic Hydric Soils	3.
Histosol	• •		Polyvalue Belo	w Surface (	(S8) ( <b>LRF</b>	R,			LRR K, L, MLRA 1	
	pipedon (A2)		MLRA 149B						ox (A16) (LRR K, L	
Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Surfa						or Peat (S3) (LRR I	<, L, R)
	Layers (A5)		Loamy Gleyed			, <b>L</b> )			(LRR K, L, M) Surface (S8) (LRR I	C L)
	i Below Dark Surface	e (A11)	Depleted Matrix						(S9) (LRR K, L)	", -,
	ark Surface (A12)	, ,	Redox Dark Su						lasses (F12) (LRR	K, L, R)
	lucky Mineral (S1)		Depleted Dark		7)				ain Soils (F19) ( <b>ML</b> I	
	leyed Matrix (S4)		Redox Depress	sions (F8)					6) (MLRA 144A, 14	5, 149B)
	edox (S5) Matrix (S6)							rent Materi	ai (F21) Surface (TF12)	
	rface (S7) ( <b>LRR R, N</b>	ILRA 1498	3)					Explain in F		
			,						·,	
	hydrophytic vegetat	ion and we	tland hydrology mu	st be prese	nt, unless	disturbed	or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (inc	ches):			***			Hydric Soil	Present?	Yes No	
Remarks:										
,										
										1
										1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: Chautauqua County Sampling Date: 5 7 Project/Site: Ball Hill Wind Project State: NY Sampling Point: DP-714 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): B. VIRTS, S. Buckenmayer Section, Township, Range: Town of Honorer Landform (hillslope, terrace, etc.): H:11510Re Local relief (concave, convex, none): Concave Slope (%): O-70/6 42. 457291 Long: \_-79.105223 Datum: NAD 83 Subregion (LRR or MLRA): LRR-R Lat: Soil Map Unit Name: Fremont S. It Joan 3+08 % Slopes NWI classification: UPland Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation No., Soil No., or Hydrology No. significantly disturbed? Are "Normal Circumstances" present? Yes X No. Are Vegetation <u>\(\lambda\delta\delta\)</u>, Soil <u>\(\lambda\delta\)</u>, or Hydrology <u>\(\lambda\delta\delta\)</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? If yes, optional Wetland Site ID: We Hand Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) ✓ Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) Surface Water (A1) \_\_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) \_\_\_ Crayfish Burrows (C8) \_\_\_ Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) \_\_\_ Drift Deposits (B3) Recent fron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_\_\_ Algal Mat or Crust (B4) Shallow Aquitard (D3) \_\_\_ Thin Muck Surface (C7) Iron Deposits (B5) Microtopographic Relief (D4) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_ Other (Explain in Remarks) X FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes \_\_\_\_ No \_\_X Depth (inches): Surface Water Present? Yes \_\_\_\_ No \_ \* Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_ No \_ Yes X No Depth (inches): & " Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

				Sampling Point:
Tree Stratum (Plot size: 301)	Absolute			Dominance Test worksheet:
Not 0-015 11		Species?		Number of Dominant Species 2
1. Not Applicable		<del></del>		That Are OBL, FACW, or FAC:(A)
2			·	Total Number of Dominant
3				Species Across All Strata:(B)
4				Because of Borniages Canadian
•				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
5				(105)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	6	= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'				FACW species x 2 =
				FAC species x 3 =
1. not applicable			<del></del>	FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7		****		1 - Rapid Test for Hydrophytic Vegetation
,	Ô	= Total Cov	/er	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5)				3 - Prevalence Index is ≤3.0¹
	3.	Mac	<b>5</b>	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Oroclea Sensibilis	30	<u>Yes</u>	FACW	data in Remarks or on a separate sheet)
2. Mentha Xpiperita	25	Y.45	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Threes offisas	10	No	0BL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Euthamia graminifolia	10	Na	FAC	be present, unless disturbed or problematic.
The state of the s				Definitions of Vegetation Strata:
5. Eupatorium perfoliatum	10	<u>~~</u>	FRCW	Definitions of Vegetation Strata.
6. Corex Flava	_5_	<u> NO</u>	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Corners amoman	_5_	<u> 100</u>	FACH	at breast height (DBH), regardless of height.
8. Lythrum Salicaria	5	NO	OBL	Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
	<del></del>		·	Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11			-	We declared Allows by the second of the 2000 to
12				Woody vines - All woody vines greater than 3.28 ft in height.
	100	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30/)		- 10141 001	101	
10 . 1 0 - 0 1				
1. Not Applicable				
1. Not Applicable				Hydrophytic Vegetation
2				Vegetation Present?  Yes No
				Vegetation 🗶
2				Vegetation 🗶
2		= Total Cov	/er	Vegetation 🗶

	cription: (Describe	to the dept	n needed to docur	nent the indicator	or confirm	the absence of i	ndicators.)
Depth	Matrix Color (moist)	<del>~~~</del> -	Redo	x Features % Type <sup>1</sup>	1 2	T	Demonitor
(inches)	2.54312		Color (moist)		LOC		Remarks
2" 53				16'64	<del></del>	<u> </u>	
6-8	2.5×311	82%	104R318	12% 6	$\sim$	ZIL _	
			<del></del>				
	-		<del></del>				
			·····				
<del></del>	-			`			
			····				
	oncentration, D=Depl	letion, RM=I	Reduced Matrix, M	S=Masked Sand G	rains.		L=Pore Lining, M=Matrix.
Hydric Soil			5 5.	0 ( (00) (150			Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)	-	Polyvalue Below	w Surface (S8) (LR	RR,		k (A10) ( <b>LRR K, L, MLRA 149B</b> ) irie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi		_		, ace (S9) ( <b>LRR R, N</b>	ILRA 149B)		ky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)	_	Loamy Mucky N	dineral (F1) (LRR I		Dark Surfa	ace (S7) ( <b>LRR K, L, M</b> )
	Layers (A5)	- (444)	Loamy Gleyed			-	Below Surface (S8) (LRR K, L)
	d Below Dark Surface ark Surface (A12)		Depleted Matrix ∠Redox Dark Su				Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)	_	Depleted Dark				Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)	_	Redox Depress				odic (TA6) (MLRA 144A, 145, 149B)
_	Redox (S5)						nt Material (F21)
	Matrix (S6) rface (S7) ( <b>LRR R, N</b>	II RA 149R)	ı				low Dark Surface (TF12) plain in Remarks)
							Jan III , Ioniano,
	f hydrophytic vegetat		and hydrology mus	st be present, unles	s disturbed	or problematic.	
	_ayer (if observed):						
Type:	aboo):	· · · · · · · · · · · · · · · · · · ·				Madria Cail Dua	esent? Yes No
Depth (inc	nes)				<del></del>	Hydric Soil Pre	esent? Yes No No No
Remarks:							
ı							

Project/Site: Ball Hill Wind Project	City/County Chaut	auqua County	Sampling Date: 6/26/16			
· ·			Sampling Point: DP-715			
Investigator(s): B. VIRTS S. Birejemmoyer						
Landform (hillslope, terrace, etc.): Hillslope Loc						
Subregion (LRR or MLRA): LRR-R Lat: 42.45	52723	- 79 10508	2. Detum NAD 83			
Soil Map Unit Name: Fremont S; It Loan 3+						
Are climatic / hydrologic conditions on the site typical for this time of ye		•				
Are Vegetation <u>いと</u> , Soil <u>りこ</u> , or Hydrology <u>ゅ</u> g significantly	disturbed? Are	"Normal Circumstances" ¡	present? Yes X No			
Are Vegetation <u>い</u> 。, Soil <u>心</u> 心, or Hydrology <u>心</u> の naturally pro	oblematic? (If	needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing	sampling point	locations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes X No	Is the Sample	ed Area				
Hydric Soil Present? Yes No X	within a Wetl	and? Yes	No >			
Wetland Hydrology Present? Yes No X	If yes, optiona	I Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate repo						
upland Data point	for weth	-d A-621				
CIPTARO DENA POLET	(). ()					
	•		·			
IIVODOL COV						
HYDROLOGY			(			
Wetland Hydrology Indicators:		•	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil				
Surface Water (A1) Water-Stained		Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna		Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (		Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Water Marks (B1) Hydrogen Sulfi		<del></del>	` '			
	ospheres on Living Ro	Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Drift Deposits (B3) Presence of Re Algal Mat or Crust (B4) Recent Iron Re	eduction in Tilled Soils		· ·			
Iron Deposits (B5) Thin Muck Surf		I Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)  Other (Explain						
Sparsely Vegetated Concave Surface (B8)	iii Remarko)	FAC-Neutra				
Field Observations:						
Surface Water Present? Yes No Depth (inches	a):					
Water Table Present? Yes No Depth (inches						
Saturation Present? Yes No Depth (inches		Netland Hydrology Prese	nt? YesNo			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspection	ns), if available:				
Remarks;						
·						

TEGETATION — 656 GOIGINATIO NATIONS OF PLANES.			, , , , , , , , , , , , , , , , , , , ,
Tree Stratum (Plot size: 30')		Dominant Indica Species? State	
			Number of Dominant Species
1. NOT Applicable			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			
4			Percent of Dominant Species That Are ORL FACW or FAC
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
			Tresaines mask werkenses.
7			
	<u> </u>	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')			FACW species x 2 =
1. not Applicable			FAC species x 3 =
			FACU species x 4 =
2	<del></del> .		UPL species x 5 =
3			Column Totals: (A) (B)
4			, ,
			Provolence Index - P/A -
5		<del> </del>	
6		· · · · · · · · · · · · · · · · · · ·	
7			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	2 - Dominance Test is >50%
c'		- Total Cover	3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size: 5')			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Muhlenbergia Schrebat	65	Yes FA	data in Remarks or on a separate sheet)
2. Entrania gramini folia	15	NO FR	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Solidago conodersis			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Inners afterns		<u> </u>	31 be present, unless distarbed of prepierhatic.
5. Rainchlus acris		NO FR	Definitions of Vegetation Strata:
6			Tree ~ Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
7			
8			Sapling/shrub – Woody plants less than 3 in, DBH
9			and greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11			Woody vines All woody vines greater than 2.29 A in
12.			Woody vines – All woody vines greater than 3.28 ft in height.
	100	= Total Cover	
Woody Vine Stratum (Plot size: 30')		_ 10tai 00v6i	
1. not Applicable			
2			Hydrophytic
			Vegetation Present? Yes No
3			Fieseliti 1es NO
4			
	0	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)	•	
Tronication (more as principles in a separate	,		

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirm	the absence	of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	- <u>%</u>	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup> _	Texture	0 11 1	Remarks	
0"-13"	10ye 313	1000	lugas18	50/0	<u></u>	<u>m</u>	SIL	120012	Auger Relu 1300	ou .
									· · · · · · · · · · · · · · · · · · ·	
<u> </u>								****		
			1							
				*****						
<u></u>										
<sup>1</sup> Type: C=Co	oncentration, D=Depl	letion RM:	Reduced Matrix M	S=Macked	Sand Gr	nine	2l coation	DIDoro I	Lining, M=Matrix.	
Hydric Soil I	ndicators:	ionori, rair	- reduced Matrix, Mi	3-Iviaskeu	Sand Gr	31115.			natic Hydric Soi	ls³:
Histosol	(A1)		Polyvalue Belov	w Surface	(S8) (LRF	R.R.			LRR K, L, MLRA	ŀ
	ipedon (A2)		MLRA 149B		· / · ·	,			ox (A16) (LRR K,	
Black His			Thin Dark Surfa						or Peat (S3) (LRF	
	n Sulfide (A4)		Loamy Mucky N			, L)			(LRR K, L, M)	
	Layers (A5) Below Dark Surface	Δ(Δ11)	Loamy Gleyed Depleted Matrix		1				Surface (S8) (LRR	k K, L)
	rk Surface (A12)	7 (7.11)	Redox Dark Su						(S9) ( <b>LRR K, L</b> ) Masses (F12) ( <b>LR</b>	BKI B/
	ucky Mineral (S1)		Depleted Dark		7)				ain Soils (F19) (M	
Sandy G	leyed Matrix (S4)		Redox Depress		•				6) (MLRA 144A, 1	
	edox (S5)						Red Pa	rent Materi	al (F21)	
	Matrix (S6)								Surface (TF12)	
Dark Sur	face (S7) (LRR R, M	ILKA 149E	<b>)</b>				Other (	Explain in F	Remarks)	
3Indicators of	hydrophytic vegetati	ion and we	tland hydrology mus	t be prese	nt. unless	disturbed	or problematic			
Restrictive L	ayer (if observed):			1 DO P1000	, amou	distarboa	or problematio	•		
Type:										
Depth (inc	hes):						Hydric Soil	Present?	Yes N	10 7
Remarks:										
,										

Dell Hill Wind Droingt	Chautauaua County
	ounty: Chautauqua County Sampling Date: 5127116
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- +1 C
Investigator(s): B. Vires, N. Dutcher Section	on, Township, Range: Town of Hancuer
Landform (hillslope, terrace, etc.): Hillslope Local reli	ef (concave, convex, none): Concave Slope (%): 20/6
	0// Long: -79,132622 Datum: NAD 83
,	
Soil Map Unit Name: Chantangua Silt loam, 3708	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	<b>,</b>
Are Vegetation No., Soil No., or Hydrology No. significantly disturb	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation <u>~0</u> , Soil <u>~0</u> , or Hydrology <u>~0</u> naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present?  Yes   No	If yes, optional Wetland Site ID: Wetland A61子
Remarks: (Explain alternative procedures here or in a separate report.)	ir yes, optional wettand cite is:
/ Constitution ( Constitution of the Constitut	
	•
n'	
	,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	·
High Water Table (A2) Aquatic Fauna (B13)	
∑ Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	
1 <del></del>	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (I	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rel Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
	Zer Ao-redutal rest (50)
Field Observations:	
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):	,
Saturation Present? Yes _x No Depth (inches): O (includes capillary fringe)	Wetland Hydrology Present? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	
, volitainei	

VESTIATION - Ose scientific flatfies of platfies				
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
				Number of Dominant Species
1. not opplicable				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
5	<del></del>		<del></del>	That Ale Obl., FACW, OF FAC
6,	<del></del>			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Rosa multiflora	20	Y	FACU	FAC species x 3 =
2. Cornus alba		V	FACU	FACU species x 4 =
		<del></del>		UPL species x 5 =
3. Alnus incara			FACU	Column Totals: (A) (B)
4				Burnelin and Indian a P/A
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
	1115	= Total Cov		∑ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')		- 10101 001		3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Onoclea Sensibilis	45	1	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	<del></del>	7	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
2. Salldogo rugusa		<u></u>		
3. CACEY COLLYA		_N	<u> </u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Cornus alba	10-	<u> N</u>	FACW	be present, unless disturbed of problematic.
5. Eupotorium perfoliatum		N	FACW	Definitions of Vegetation Strata:
6. Galium borea's	5	N	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Carex flava	5	M	OBL	at breast height (DBH), regardless of height.
8		••		Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11			<del></del>	Woody vines - All woody vines greater than 3.28 ft in
12	100			height.
	100	= Total Cov	/er	
Woody Vine Stratum (Plot size: 3c')				
1. not opplicable				
2				Hydrophytic Vegetation
3.				Present? Yes No
4				,
	0	= Total Co		
Remarks: (Include photo numbers here or on a separate		Total Co	VOI	
Remarks. (include proto numbers here of on a separate	311001.)			

Profile Description: (Describe to the de	pth needed to docum	nent the i	ndicator	or confirm	the absence	of Indicators.)
Depth Matrix (inches) Color (moist) %		x Features	Type <sup>1</sup>	Loo <sup>2</sup>	Texture	Remarks
<del></del>	Color (moist)				CL	Kemaro
01-5" 1092311 95	10y25/8	_5_	<u>c</u>	$\frac{\infty}{}$		
5"-20" 10yes11 90	10g2518	<u> </u>	<u>_</u>	<u>m</u>	<u> </u>	mixed w graves
			<del></del>			
·						
			<del></del>			
	·					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	/=Reduced Matrix, M	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belo		(S8) ( <b>LR</b>	R R,		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Histic Epipedon (A2) Black Histic (A3)	MLRA 149B Thin Dark Surfa	•	LRR R. M	LRA 149B	_	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky				Dark	Surface (S7) (LRR K, L, M)
Stratified Layers (A5)	Loamy Gleyed		2)			alue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matri		١			Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted Dark	-				nont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Depress					Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)						Parent Material (F21) Shallow Dark Surface (TF12)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14)	9B)					r (Explain in Remarks)
					<del></del> -	
<sup>3</sup> Indicators of hydrophytic vegetation and v	vetland hydrology mu	st be pres	ent, unles	s disturbed	l or problemat	ic.
Restrictive Layer (if observed):						
Type: Depth (inches):	<del>-</del>				Hydric So	il Present? Yes 🚣 No
Remarks:				····	1.3	
Tromano.						
,						

Project/Site: Ball Hill Wind Project City/0	County: Chautauqua County Sampling Date: 5/27/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 717
Investigator(s): B. VIRTS, N. Dutcher Section	on Township Range: Town of Haraver
Local form (hillsland torroom ata): H. (15100 c	lief (concave, convex, none): Convey Slope (%): 1-2 %
Subregion (LRR or MLRA): LRR-R Lat: 42.4392	97 79 137 492 Det NAD 83
Subregion (LRR or MLRA): LINE Lat: 92.7512	ST Long: 17:132112 Datum: 14:00
Soil Map Unit Name: Chautaugua 5: 11 Loom , 3 to	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation NO, Soil NO, or Hydrology C significantly distu	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation NO, Soil NO, or Hydrology NO naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No 💢	Is the Sampled Area
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No X	within a Wetland? Yes No
Wetland Hydrology Present?	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	ii yes, optional frontails one is
	( 66.7
upland path point for	Wetland MOIT
	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leav	res (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide O	dor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphe	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	ed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduct	
Iron Deposits (B5) Thin Muck Surface	(C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes NoX Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No 🔀
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections) if available:
Describe Necorded Data (stream gauge, monitoring won, acrea proces, p	Tovicus inspections, in availables
Remarks:	

VEGETATION - Use scientific flames of plants	•			Sampling Forte
3.	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Prunus Serotina	80	<u> </u>	FACU	That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant  Species Across All Strata:  (B)
3	<del>.,,</del>			Species Across All Strata: (B)
4				
4		×		Percent of Dominant Species That Are OBL FACW or FAC:
5				That Are OBL, FACW, or FAC: (A/B)
•				1.74.4
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	80	= Total Cov	er	OBL species x1 =
اسمن			<b>.</b>	·
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Prunus Seratina	.30	Υ	FACU	FAC species x 3 =
lifeti	10	Y	FACU	FACU species 180 x4 = 720
2. Fagus grandifolia	10	1	FF.C	UPL species LO x5 = 56
3				
				Column Totals: <u>(90</u> (A) <u>770</u> (B)
4				
5				Prevalence Index = B/A = 4,05
				Hydrophytic Vegetation Indicators:
6		<del></del>	<del></del>	
7				1 - Rapid Test for Hydrophytic Vegetation
	40			2 - Dominance Test is >50%
<i>I</i>		= Total Cov	er/er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:5')				ļ. ——
1. Frayinus Omericana	40	Y	TAKE	4 - Morphological Adaptations (Provide supporting
1. Fraying Otterlians		<del></del>	<del></del>	data in Remarks or on a separate sheet)
2. Fragaria Virginiana	10	N	OPL	Problematic Hydrophytic Vegetation¹ (Explain)
3. Acer sacchaium	15	Y	FACU	And the description of the data and an advantage of the data.
3. FILLY Jak MIDIT		<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Tsuga Canadensis	5	H	FACU	be present, unless disturbed of problematic.
<b>- - - - - - - - - -</b>				Definitions of Vegetation Strata:
5				
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tail.
9				Herb - All herbaceous (non-woody) plants, regardless of
10		<del></del>		size, and woody plants less than 3.28 ft tall.
11				5.25, and wordy pressure to be the second
				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	70	_ = Total Co	ver	
~ <i>(</i>		_ /ota/ 00	701	
Woody Vine Stratum (Plot size: 30')				
1. Not Applicable				
				Hydrophytic
2				
3				Present? Yes No
				· ·
4				
	Ø	_ = Total Co	ver	
Remarks: (Include photo numbers here or on a separate				
Remarks: (Include photo numbers here or on a separate	sheet.)			
1				

Profile Desc	cription: (Describe	to the dept	h needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	Type <sup>1</sup>	Loc²	Texture	Remarks			
U'~5"			COIOI (MOIOI)				SIL				
5"-14"								mixed wil ground			
101"+											
<u> </u>		· <u>····</u> .									
	<del></del>	·	<del> </del>								
						<del></del>					
		· ·	,		<del></del>		•				
· <u></u>											
				<del></del>				***************************************			
		· <del></del> .			<del></del>						
1=			Dadwa d Mastria Mil				21	DI -Dara Lining M-Matrix			
Hydric Soil	oncentration, D=Dep Indicators:	ietion, RM=	Reduced Matrix, M.	5=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :			
Histosol	• •		Polyvalue Belo		(S8) ( <b>LR</b> i	R,		Muck (A10) (LRR K, L, MLRA 149B)			
Histic Er	pipedon (A2) istic (A3)		MLRA 149B Thin Dark Surfa	,	RR R. M	LRA 149B)		Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydroge	en Sulfide (A4)	,	Loamy Mucky I	dineral (F	1) (LRR K		Dark S	Surface (S7) (LRR K, L, M)			
	d Layers (A5) d Below Dark Surfac	e (A11)	Loamy Gleyed Depleted Matrix		2)		-	alue Below Surface (S8) (LRR K, L) Park Surface (S9) (LRR K, L)			
Thick Da	ark Surface (A12)		Redox Dark Su	rface (F6)			Iron-M	anganese Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1) Bleyed Matrix (S4)	,	Depleted Dark Redox Depress	•	<del>-</del> 7)			ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy F	Redox (S5)	•		(, -,			Red P	Red Parent Material (F21)			
	l Matrix (S6) rface (S7) ( <b>LRR R, I</b>	ЛІ RA 149R	N				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
_											
	f hydrophytic vegeta Layer (if observed):		tland hydrology mu	st be prese	ent, unles	s disturbed	or problemation	C			
Type:	Layer (ii observeu).										
Depth (in	ches):						Hydric Soil	Present? Yes No			
Remarks:											
,											

WEILAND DETERMINATION DATA FOR	110111100111111111111111111111111111111				
Project/Site: Ball Hill Wind Project City/C	ounty: Chautauqua County Sampling Date: 5\27\16				
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 718				
Investigator(s): B. Vizzs, N. Dutche- Section	on Township Range: Town of Hanoxer				
Landform (hillslope, terrace, etc.): Hillslope Local reli					
Subregion (LRR or MLRA): LRR-R Lat: 42. 4399	41 Long: -79.132081 Datum: NAD 83				
Soil Map Unit Name: Bust S. 1+ Icam 3 to 8%					
Are climatic / hydrologic conditions on the site typical for this time of year? Y	· · · · · · · · · · · · · · · · · · ·				
Are Vegetation No, Soil No, or Hydrology NO significantly distur	•				
Are Vegetation <u>~~~</u> , Soil <u>~~~</u> , or Hydrology <u>~~~</u> naturally problems	atic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS Attach site map showing sam	pling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: Wetland A622				
Remarks: (Explain alternative procedures here or in a separate report.)					
	·				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leave	es (B9) <u>×</u> Drainage Patterns (B10)				
X High Water Table (A2) Aquatic Fauna (B13)					
X Saturation (A3) Marl Deposits (B15)					
Water Marks (B1) Hydrogen Sulfide Oc					
<del></del>	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduce	d Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re					
Sparsely Vegetated Concave Surface (B8)	✓ FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes X No Depth (inches): 11					
Saturation Present? Yes X No Depth (inches): 9	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:				
2555,150   (455120 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Remarks:					

Tree Stratum (Plot size: 3c')	Absolute	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Ulmu amencorra		Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Fraxinus pennsylvania	20	<u> </u>	EACW	,
3. Populus tremuloides		N	FACU	Total Number of Dominant Species Across All Strata: () (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	55	= Total Cov	er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Ulmus americans	20	Y	FACW	FAC species x 3 =
2. Cornus amonum		Y	FACIN	FACU species x 4 =
3	·			UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	1.0	= Total Cov		Z 2 - Dominance Test is >50%
Herb Stratum (Plot size:5)		- Total Cov	<b>O</b> I	3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Onclea Sensibilis	25	Υ	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Fraxinus pennsylvanica	10	N	FACH	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Colous amondum		Y.	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6		<del></del>		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7		<del></del>		
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12.				Woody vines - All woody vines greater than 3.28 ft in height.
	50	= Total Cov	er	
Woody Vine Stratum (Plot size: 38')				
1. Not Applicable				
2.				Hydrophytic
3.				Vegetation   Yes   No
4	<del></del>		<del></del>	
	Ø	= Total Cov	er	
Remarks: (Include photo numbers here or on a separate	sheet.)			
				·

Profile Descri	ption: (Describe	to the dep	th needed to docum	ent the i	ndicator o	r confirm	the absence o	of indicators.)			
Depth _	Matrix			Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks			
0"-4"	10423/1	45	542416	_5_	_ <u></u>	<u>~</u>	<u> </u>				
4"-13"	10yr514	95	10yr518		<u></u>	<u>~</u>	ر ا				
13"+ Ro	ch Refusel										
		. ———									
			<del>,</del>								
				,							
		- —									
		·									
		·									
		letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :			
Hydric Soil In			Daharahan Balan	0	(CO) (I ID)	3 D		luck (A10) (LRR K, L, MLRA 149B)			
Histosol (A	A1) pedon (A2)		Polyvalue Belov MLRA 149B)		(58) ( <b>LR</b> I	Κ,		Prairie Redox (A16) (LRR K, L, R)			
Black Hist			Thin Dark Surfa		LRR R, M	LRA 149B)		flucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4)		Loamy Mucky N	/lineral (F	1) (LRR K	., L)		urface (S7) (LRR K, L, M)			
1	Layers (A5)		Loamy Gleyed		2)			lue Below Surface (S8) (LRR K, L)			
	Below Dark Surfac k Surface (A12)	e (A11)	Depleted Matrix  Redox Dark Su		١			ark Surface (S9) ( <b>LRR K, L</b> ) anganese Masses (F12) ( <b>LRR K, L, R</b> )			
	icky Mineral (S1)		Depleted Dark				Piedmont Floodplain Soils (F19) (MLRA 149B)				
	eyed Matrix (S4)		Redox Depress				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy Re								Red Parent Material (F21)			
	Matrix (S6)	MI DA 140	D)				Very Shallow Dark Surface (TF12)     Other (Explain in Remarks)				
Dark Surre	ace (S7) ( <b>LRR R,</b> I	MENA 143	ω,					(C)			
<sup>3</sup> Indicators of I	hydrophytic vegeta	ition and w	etland hydrology mus	st be pres	ent, unles	s disturbed	or problemation	D			
Restrictive La	ayer (if observed)	:									
Type:			<u>-</u>					Present? Yes X No			
Depth (inch	nes):						Hydric Soil	Present? Yes X No No			
Remarks:											
<u> </u>											
<b>\</b>											
,											
	•										

Project/Site: Ball Hill Wind Project City/C	ounty: Chautauqua County Sampling Date: 5127116					
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-721					
Investigator(s): B. V. RTS. P. Dutcher Section						
Landform (hillslope, terrace, etc.): H:115/cpe Local relief (concave, convex, none): Concave Slope (%): O - Zo						
Subregion (LRR or MLRA): LRR-R Lat: 42.4395						
Soil Map Unit Name: Bust 5: 1+ Lom , 3 to 8 % Sleep						
Are climatic / hydrologic conditions on the site typical for this time of year? Y						
Are Vegetation NO, Soil NO, or Hydrology NO significantly disturb	· ·					
Are Vegetation 70, Soil 70, or Hydrology 70 naturally problema						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? Yes No					
Hydric Soil Present? Yes No	within a Wetland? Yes No					
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: wetland 19624					
Remarks: (Explain alternative procedures here or in a separate report.)						
Per Octa point for	wetland Abid.					
,	7.654.					
·						
	·					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) X Water-Stained Leave	s (B9)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Od	• • • • • • • • • • • • • • • • • • • •					
Sediment Deposits (B2) Oxidized Rhizospher						
Drift Deposits (B3) Presence of Reduced	· ·					
Algal Mat or Crust (B4) Recent Iron Reductio	· ·					
Iron Deposits (B5) Thin Muck Surface (C	· · · · · · · · · · · · · · · · · · ·					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _X Depth (inches):						
Water Table Present? Yes No _X Depth (inches):						
Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes <u></u> No					
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	ivious irispections), ii available.					
Remarks:						
•						
6						
·						
1						

Tree Stratum (Plot size: 30')		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. not Applicable				Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2				Total Number of Dominant
3				Total Number of Dominant Species Across All Strata:  (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: / ひゅ (A/B)
5	<del></del>	<del></del>	·	Mat Ale OBL, FACW, OF FAC. [A/B]
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		OBL species x1 =
		_ 10ta1 C01	V <del>O</del> I	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. NOT APPLICABLE				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4	·			
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
<u></u> /		= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 )	_		•	4 - Morphological Adaptations¹ (Provide supporting
1. Ranunculus acris	2	γď	FAC	data in Remarks or on a separate sheet)
2. Onoclea Sensibilis	38	Y	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		K.		,
3. Phalaris arundinacco		1	FACW	'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Cornus amornum	1.5	<u>n'</u>	FACW	be present, unless disturbed of problematic.
5. Carex Flava	20	<u> </u>	OBL	Definitions of Vegetation Strata:
6. Alnus Serrulata		1	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
		<u> </u>		at breast height (DBH), regardless of height.
7. Scirpus Cuperinas		14	206	
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 3.20 it (1 m) tail.
10				Herb - All herbaceous (non-woody) plants, regardless of
		-		size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	100	= Total Co	ver	
Woody Vine Stratum (Plot size: 30')				
1. POT APPLICABLE				
in the Manager	-		-	Hydrophytic
2	<del></del>			Vegetation
3				Present? Yes No No
4.				
	0	= Total Co		
Damada, (Include abote numbers bere as an a consect		_ = Total Co		
Remarks: (Include photo numbers here or on a separate	sneet.)			
				49
· ·				
·				

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence	of Indicators.)		
Depth	Matrix		Redo	x Feature	<u>s</u>					
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0"-8"	10 YR 3/1	95	7.542416							
9"-17"	2.5y 5/3	_ଚତ_	2.54516	10	<u> </u>	<u>m</u>	SCL			
			104R411	10	<u>D</u>	<u></u>				
17"20"	1042516	100					SCL			
	<b>U</b>									
		<del></del>								
		·					·			
	····	·								
	-	·								
			*****							
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location	PL=Pore Lining, M=Matrix.		
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,		luck (A10) (LRR K, L, MLRA 149B)		
Histic Ep	oipedon (A2)		MLRA 149B) Thin Dark Surfa	•	IRRR M	I RA 149R		Prairie Redox (A16) ( <b>LRR K, L, R</b> ) lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
l —	n Sulfide (A4)		Loamy Mucky N					urface (S7) (LRR K, L, M)		
	l Layers (A5)		Loamy Gleyed	Matrix (F				lue Below Surface (S8) (LRR K, L)		
	d Below Dark Surfac	e (A11)	Depleted Matrix					ark Surface (S9) ( <b>LRR K, L</b> ) anganese Masses (F12) ( <b>LRR K, L, R</b> )		
	ark Surface (A12) lucky Mineral (S1)		_X Redox Dark Su Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)		
	Bleyed Matrix (S4)		Redox Depress				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
I	Redox (S5)							Red Parent Material (F21)		
	Matrix (S6) rface (S7) ( <b>LRR R, I</b>	MLRA 149	<b>B</b> )				<ul><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>			
<sup>3</sup> Indicators of	f hydronhytic vegeta	tion and w	etland hydrology mus	st he nres	ent unles	s disturbed	d or problematic	<b>.</b>		
	Layer (if observed):		onana nyarology ma				1			
Type:			•							
Depth (inc	ches):		-				Hydric Soil	Present? Yes No		
Remarks:										
,										
1										

Project/Site: Ball Hill Wind Project	City/County: Chautau	uqua County	Sampling Date: 5/27/16			
Applicant/Owner: Ball Hill Wind Energy, LLC			Sampling Point: DP- アンス			
Investigator(s): B. Viets, N. Dutcher	Section Township Ra					
Landform (hillslope, terrace, etc.): 14:11510 pe Loc						
Subregion (LRR or MLRA): LRR-R Lat: 42.4						
Subregion (LRR or MLRA): Lat: 72.9	5 1 1 10 Lon	g: 77,7500 9	Datum: 1772 00			
Soil Map Unit Name: Bust Silt Loca, 3th						
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes <u>×</u> No _	(If no, explain in	Remarks.)			
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significantly	disturbed? Are	'Normal Circumstances"	present? Yes X No			
Are Vegetation <u>NO</u> , Soil <u>ND</u> , or Hydrology <u>NO</u> naturally pro		eded, explain any answ				
SUMMARY OF FINDINGS – Attach site map showing	sampling point l	ocations, transect	s, important features, etc.			
Hydrophytic Vegetation Present? Yes X No	is the Sampled					
Hydric Soil Present? Yes X No	within a Wetlar	nd? Yes	No			
Wetland Hydrology Present? Yes X No	If ves. optional	Wetland Site ID: <u> </u>	tand A624			
Remarks: (Explain alternative procedures here or in a separate repo		Trodata oto ibi				
PSS Data Point for	(Jet) chi	130 24				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)		Surface So	il Cracks (B6)			
Surface Water (A1) Water-Stained	Leaves (B9)	_ <u> </u>				
High Water Table (A2) Aquatic Fauna	(B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits	B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfi		Crayfish Burrows (C8)				
	spheres on Living Roo	Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Re			Stressed Plants (D1)			
1 <del></del> •	duction in Tilled Soils (					
✓ Iron Deposits (B5)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain	in Remarks)	<ul><li>Microtopographic Relief (D4)</li><li>FAC-Neutral Test (D5)</li></ul>				
Sparsely Vegetated Concave Surface (B8)		Z FAC-Neutr	ai rest (D3)			
Field Observations:  Surface Water Present?  Yes No Depth (inches						
	·	otland Hydrology Pres	ent? Yes X No			
Saturation Present? Yes No Depth (inches (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial phot	·		ent 163 <u>7</u> 110 <u> </u>			
Remarks:						
		0				
			•			

Tree Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. not Applicable				That Are OBL, FACW, or FAC: (A)
2				
4·				Total Number of Dominant '3
3				Species Across All Strata: (B)
4.				Percent of Dominant Species
,				That Are OBL, FACW, or FAC: (A/B)
5	-			(100)
6				Prevalence Index worksheet:
7				
7				Total % Cover of: Multiply by:
. 1	<u> </u>	= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 155')				FACW species x 2 =
Carrier of a control of a contr		V	Come	FAC species x 3 =
1. Comus anomum		7 42	PACU	-
2. Ulmus Americana	15	20	FACH	FACU species x 4 =
•		70		UPL species x 5 =
3. Populus tremulaides			FACH	Column Totals: (A) (B)
4. Fraxing penosylvanica-	5	NO	FACIL	
<b>,</b>				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
,	65	= Total Cov	ver	
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		vi .		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Eguistan palmire	40	yes	PACW	data in Remarks or on a separate sheet)
2. Onoclen Sensibilis	ro	Yes	PACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	7.44	70		1
3. Comus amainum			PACU	¹Indicators of hydric soil and wetland hydrology must
4. Importions copensis	10	70	PACUL	be present, unless disturbed or problematic.
	5	N 6	PITC	Definitions of Vegetation Strata:
5. Luthania graninifolia				201111111111111111111111111111111111111
6. Francis penasylvenia	5	100	PACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Ranunculus acris	5	64	FAC	at breast height (DBH), regardless of height.
7. 100476/1005				Cardinalahash Maada alaata laas than Cir. DDII
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 5.20 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11		<del></del>		
40				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	100	= Total Co	ver	
Woody Vine Stratum (Plot size: 3 o' )				
1. not applicable				
2.				Hydrophytic
				Vegetation Present?  Yes   No
3	· ——			Liegairt 182 NO TO
4				
	0			
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)					
Depth Matrix (inches) Color (moist) %	Redox Feature Color (moist) %		Texture	Remarks	
				IVEIIIdINS	
	7.5yzu16 5	· <del></del>	<u> </u>		
4-12" loge411 90	5y23/4 5	<u> </u>	· <i>C</i>		
	7.542516 5	<u> </u>			
12"-20" 7.5y511 60	10/125/6 25	C m	CL Sm	all grown component	
	2.59311 15	0 0			
	<del>, , , , , , , , , , , , , , , , , , , </del>				
<sup>1</sup> Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, MS=Maske	d Sand Grains.		Pore Lining, M=Matrix.	
Hydric Soil Indicators:				oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface MLRA 149B)	e (S8) ( <b>LRR R,</b>		.10) ( <b>LRR K, L, MLRA 149B</b> ) Redox (A16) ( <b>LRR K, L, R</b> )	
Black Histic (A3)	Thin Dark Surface (S9) (	LRR R, MLRA 149B)		Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F			(S7) (LRR K, L, M)	
Stratified Layers (A5)	Loamy Gleyed Matrix (F	2)		ow Surface (S8) (LRR K, L)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	`	Thin Dark Surface (S9) (LRR K, L)		
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	_'X Redox Dark Surface (F6 _ Depleted Dark Surface (	•	Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	•	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)			Red Parent Material (F21)		
Stripped Matrix (S6)			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
Dark Surface (S7) (LRR R, MLRA 14	9B)		Other (Explai	n in Remarks)	
<sup>3</sup> Indicators of hydrophytic vegetation and	wetland hydrology must be pres	sent, unless disturbed	or problematic.		
Restrictive Layer (if observed):					
Type:	<del>_</del>				
Depth (inches):			Hydric Soil Prese	nt? Yes <u>×</u> No	
Remarks:					
,					

Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: ろりなわいし
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-723
	Section, Township, Range: Town of Hanour
Landform (hillstone terrace etc.): 14:1151024	neal relief (concave, convex, none); Convex Slope (%); Z-5 %
Colorada (ADD co.M. DA), LRR-R 1ct; 42, 43	ocal relief (concave, convex, none):
Subregion (LRR or MLRA):	Sto 800 Slopez NWI classification: Wird
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation 20, Soil 20, or Hydrology 20 significantly	
Are Vegetation NO, Soil No, or Hydrology NO naturally pro-	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	is the Sampled Area
Hydric Soil Present? Yes No ×	within a Wetland? Yes No ×
Wetland Hydrology Present? Yes No ★	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	ort.)
Whend Data Daint	Fir westerd 17624
The state of the s	
	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Water-Stained	
High Water Table (A2)  Aquatic Faunt	
Saturation (A3) Mari Deposits	
Water Marks (B1) Hydrogen Sul	
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of F	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Su	
Inundation Visible on Aerial Imagery (B7) Other (Explai	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:  Surface Water Present?  Yes No Depth (inche	
1	
Water Table Present? Yes NoX Depth (inche	
Saturation Present? Yes No X Depth (inche (includes capillary fringe)	wediand nydrology Present? Tes
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
	- dimensional
No wetland hydrology indicator	OOSE, Veo.
	•

	A L 1. 4 -	Dania ant	la dia atau	, , ,
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Prince Septime		V	FACE	Number of Dominant Species
		<u> </u>		That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6		<del></del>		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
,	70	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Fraxinus americana	20	Y	FACU	FAC species x 3 =
2. Prinus Serottna	25	Y	FACU	FACU species x 4 =
2. Francis Seronnes	<u>~</u>		PACO	UPL species x 5 =
3,	·	<del> </del>		Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	-115			2 - Dominance Test is >50%
,	45	= Total Cov	er/	<del></del> **
Herb Stratum (Plot size:)				3 - Prevalence Index is ≤3.0¹
1. Rubus pensilvanicus	25	Y	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	10		FACU	Problematic Hydrophytic Vegetation¹ (Explain)
2. Fraxinus americana	<del></del>	<del>- 1</del>		I Toblematic Hydrophytic vegetation (Explain)
3. Prunus Serotina	<u>20</u>		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
6				at breast height (DBH), regardless of height.
7				
8	<del></del>			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tail.
9				and ground than or equal to 0.20 ft (1 ft) tail.
10				Herb – All herbaceous (non-woody) plants, regardless of
11.			- <del></del>	size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
12	سے نے		•	height.
<i>I</i>	55	_= Total Cov	ver	
Woody Vine Stratum (Plot size: 36')				
1. NOT Applicable				
				Hydrophytic
2			<del></del>	Vegetation Present? Yes No
3				Present? Yes No
4				
	9	_ = Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
11 1 linds 11 is interested	1	. 11.00	FACI	)
No hydrophytic vagetation ~ al	Specie	y are	1160	<b>,</b>
,				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)				
Depth <u>Matrix</u>	Redox Features			
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture         Remarks           SI		
31	<u> </u>			
8"+ Auger refusel	· <del></del>			
		·		
	A=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histic Epipedon (A2) Black Histic (A3)	MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)	Dark Surface (S7) (LRR K, L, M)		
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)		
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)	Redux Depressions (Fo)	Red Parent Material (F21)		
Stripped Matrix (S6)		Very Shallow Dark Surface (TF12)		
Dark Surface (S7) (LRR R, MLRA 149	<b>9B</b> )	Other (Explain in Remarks)		
31mdiantona of hardronkatia anadatian and		an much la maskin		
Restrictive Layer (if observed):	vetland hydrology must be present, unless disturbed	or problematic.		
Type: NA				
Depth (inches):	-	Hydric Soil Present? Yes No 🗡		
Remarks:	-			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
,				
		,		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: Chautauqua County Sampling Date: 5127116 Project/Site: Ball Hill Wind Project State: NY Sampling Point: DP-72 U Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): B. V. 275, N. Dutcher Section, Township, Range: Town of Hanover Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): Local Subregion (LRR or MLRA): LRR-R Lat: 42,440930 Long: -79.11 4057 Datum: NAD 83 Soil Map Unit Name: Bust. 5: 1+ Loam 0 to 30/6 510000 NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation 20, Soil 20, or Hydrology 10 significantly disturbed? Are "Normal Circumstances" present? Yes 10 No Are Vegetation ( ), Soil ( ), or Hydrology ( ) naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes K No within a Wetland? Hydric Soil Present? If yes, optional Wetland Site ID: Watland 1625 Yes ≯ No Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) PEM wetland in depression. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) Water-Stained Leaves (B9) \_\_\_ Surface Water (A1) \_\_\_ Aquatic Fauna (B13) \_\_\_ Moss Trim Lines (B16) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Crayfish Burrows (C8) Water Marks (B1) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) \_\_ Presence of Reduced Iron (C4) \_\_ Stunted or Stressed Plants (D1) \_\_\_ Drift Deposits (B3) Geomorphic Position (D2) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) \_\_\_ Algal Mat or Crust (B4) ➤ Shallow Aquitard (D3) \_\_\_ Thin Muck Surface (C7) \_\_\_ Iron Deposits (B5) Microtopographic Relief (D4) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_ Other (Explain in Remarks) X FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No Depth (inches): Surface Water Present? Yes \_\_\_\_ No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes 🔀 No \_\_\_\_ Yes \_\_\_\_ No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

### **VEGETATION** – Use scientific names of plants.

	Absoluts	Dandana	1-4:		
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:	
,				Number of Dominant Species	:
1. not Applicable				That Are OBL, FACW, or FAC:(	A)
2				Total Number of Dominant	
3					В)
					-/
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: (	A/B)
6	•				-
				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		= Total Cov	er	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
				FAC species x3 =	
1. not copt cable				FACU species x4 =	
2				I	
3				UPL species x 5 =	
				Column Totals: (A)	(B)
4					
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				∠ 1 - Rapid Test for Hydrophytic Vegetation	
,				2 - Dominance Test is >50%	
		= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Herb Stratum (Plot size: 5 )  1. Onoclec Sensibilis	25	Υ	FACW	4 - Morphological Adaptations¹ (Provide suppo	orting
		. 1	<del></del>	data in Remarks or on a separate sheet)	
2. Carex flava	76	<u>N</u>	OBL	Problematic Hydrophytic Vegetation¹ (Explain)	)
3. Glyceria acutiflora	25	Y	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıst
4. Fraxinus pennsylvanica	ँड	N	FACW	be present, unless disturbed or problematic.	
4. Traditions			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Definitions of Vegetation Strata:	
5				Definitions of Vegetation Strata.	İ
6				Tree - Woody plants 3 in. (7.6 cm) or more in dian	neter
7				at breast height (DBH), regardless of height.	
				Sapling/shrub – Woody plants less than 3 in. DBi	,
8				and greater than or equal to 3.28 ft (1 m) tall.	'
9	<del></del>				ŀ
10				Herb – All herbaceous (non-woody) plants, regardless	of
11				size, and woody plants less than 3.28 ft tall.	İ
		<del></del>		Woody vines - All woody vines greater than 3.28 ft in	
12	1		•	height.	
	<u>65</u>	= Total Cov	/er		
Woody Vine Stratum (Plot size:)					
1. not applicable			·	Hydrophytic	
2				Vegetation	
3				Present? Yes X No	
4.					
	0	= Total Co	ver		
Remarks: (Include photo numbers here or on a separate		. 1010100		<u> </u>	
Temano. (mondo prioto namboro noro di en a coparato	011001.7				
					ļ

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the in	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix			ox Features	<b>-</b> 1	1 2	<b>***</b>		Damania	
(inches)	Color (moist)	· <u>%</u>	Color (moist)	%		_Loc²	Texture S ( )		Remarks	- 6:
	10925/1	100%					300	arden	ics with	· · · · · · · · · · · · · · · · · · ·
7"-12"	1.54611	8540	2.546/6	15%					······································	
13"十篇"	Auge- Refi	wil !	we thin Cla	y coct	ندنح	leyer.				
<del></del>										<del></del>
· · · · · · · · · · · · · · · · · · ·						<del></del>			· · · · · · · · · · · · · · · · · · ·	
		<del></del>								
		oletion, RM	=Reduced Matrix, M	IS=Masked	Sand Gr	ains.			Lining, M=Matr	
Hydric Soil I			Debarelus Bals	uu Cuafaaa	(CO) (I D)				matic Hydric S LRR K, L, MLF	
·	ipedon (A2)		Polyvalue Beld MLRA 1498		(30) ( <b>LI</b> KI	<b>、</b> ι、,			ox (A16) (LRR	
Black His			Thin Dark Surf				5 cm N	lucky Peat	or Peat (S3) ( <b>L</b>	RR K, L, R)
	n Sulfide (A4) Layers (A5)		Loamy Mucky Loamy Gleyed			(, L)			( <b>LRR K, L, M</b> ) Surface (S8) ( <b>L</b> l	
	Below Dark Surfac	e (A11)	✓ Depleted Matri		,				(S9) (LRR K, I	
	rk Surface (A12)		Redox Dark S	, ,					Masses (F12) (L	
	ucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depres		7)				ain Soils (F19) 6) ( <b>MLRA 144</b>	
	edox (S5)			(, ,			Red P	arent Mater	ial (F21)	
	Matrix (S6)		<b>-</b> \						Surface (TF12	2)
Dark Sur	face (S7) (LRR R, I	MLKA 149I	3)				Other	(Explain in I	Remarks)	
			etland hydrology mu	st be prese	ent, unles	s disturbed	or problemation	o		
	ayer (if observed)	:								
Type: Depth (inc	'//						Hydric Soil	Dreent?	Yes X	No
Remarks:		<del></del>					Tiyane oon		163	
r comand.										
,										
									•	
								_		

Project/Site: Ball Hill Wind Project	City/County: Chau	ıtauqua County	Sampling Date: 5127116
Applicant/Owner: Ball Hill Wind Energy, LLC			Sampling Point: DP- 725
Investigator(s): B. Vizzs, N. Outcher	Section, Township.	Range: Town of	Hanover
Landform (hillslope, terrace, etc.): H:1151222			
Subregion (LRR or MLRA): LRR-R Lat: 42.	440859	1000 - 79,11376	Datum: NAD 83
Soil Map Unit Name: Bush 5: 1+ Loam, 0			
Are climatic / hydrologic conditions on the site typical for this time		`	
Are Vegetation 100, Soil 100, or Hydrology 100 signific		re "Normal Circumstances"	present? Yes X No
Are Vegetation <u>~0</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> natura	lly problematic? (	If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling poir	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No	is the Samp	oled Area	
Hydric Soil Present? Yes No X	within a We	tland? Yes	No ×
Wetland Hydrology Present? Yes No X		nal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate			
upland Octo po:	~1 PB/ W	etions H612	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	pply)	Surface So	
1 <del></del>	ained Leaves (B9)	Drainage P	
High Water Table (A2) Aquatic F	· · · · ·	Moss Trim	
Saturation (A3) Marl Dep			n Water Table (C2)
	n Sulfide Odor (C1)	Crayfish Bu	' '
	Rhizospheres on Living F of Reduced Iron (C4)	· · —	Visible on Aerial Imagery (C9) Stressed Plants (D1)
1	on Reduction in Tilled So		ic Position (D2)
_ ` `	k Surface (C7)	Shallow Aq	
· ·	(plain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	,	FAC-Neutr	3
Field Observations:			
Surface Water Present? Yes No _X Depth (iii	nches):		
Water Table Present? Yes No X Depth (i	nches):		
Saturation Present? Yes No _X _ Depth (i	nches):	Wetland Hydrology Pres	ent? Yes No <u>X</u>
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeria	photos, previous inspec	tions), if available:	
2000 Ibo i toodiaa 2012 (ciiodiii gaage) meimoinig ironi aciia	, p	,	
Remarks:	,		
No hydrology indicators me	+ lobsered.		
, 0,	,		
			·
· ·			
	·		

	<del></del>			
Tree Stratum (Plot size: 3c')	Absolute	Dominant		Dominance Test worksheet:
iree Stratum (Plot size:)		Species?		Number of Dominant Species
1. 15uga Canadensis	<u> 65</u>	<u> </u>	FACU	That Are OBL, FACW, or FAC:(A)
2. Acer Saccharum	<i>3</i> 0	Υ	FIACU	
				Total Number of Dominant
3	<del></del>			Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
	95	= Total Co	vor.	OBL species x1 =
ا سی		- Total Co	VEI	
Sapling/Shrub Stratum (Plot size: 15')		V		FACW species x 2 =
1. Fagus grandifolia	15	Y	FACU	FAC species x 3 =
2. Tsuga Canadensis	5	N	FACU	FACU species x 4 =
2. 13 ac a carrecterists	<del></del> _	<del>- \( \frac{1}{V} \)</del>		UPL species x 5 =
3. Acer Saccharum	10		FACU	Column Totals: (A) (B)
4				Coldmit Totals: (b)
		<del></del>		Prevalence Index = B/A =
5				Trovacino mask bix
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	-7-			2 - Dominance Test is >50%
<b>&gt;</b>	_30_	= Total Co	ver	<del></del>
Herb Stratum (Plot size: 5				3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Prunus Serotina	<	N	FACU	4 - Morphological Adaptations¹ (Provide supporting
	<del>-5</del>	<del></del>		data in Remarks or on a separate sheet)
2. Rubus pensilvanicus		N	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
3. Fagus grandifolia	15	Y	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		1/1		be present, unless disturbed or problematic.
4. Acer Saccharum		10	FACU	
5				Definitions of Vegetation Strata:
				Too Mandy shouts 2 in (7.6 cm) on many is discussed
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				at breast height (DDF1), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tail.
9		-		Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11.				
				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	30	= Total Co	ver	
Woody Vine Stratum (Plot size:)				
1. not Applicable				
2.				Hydrophytic
				Vegetation Present? Yes No
3				163 NO
4				
	$\mathcal{O}$	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	shoot )	_ 10101 00		<u> </u>
, ,				
Vegetation is not hydroph	WHC.	all sa	rcies	are FACU.
V Egelan	7. )	7	J- 100	

Profile Description: (Describe to the dept	h needed to document the indicator or con	firm the absence	of Indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type <sup>1</sup> Loc	Taxtura	Domodo
0"-2" 1092211 100	Color (moist) % Type <sup>1</sup> Loc	Texture Sエレ	Remarks
2"27" Syrulb 100		SIL	
7'-14" loge 4/6 100		SEL	
14"-18" 10y2416 100		Scc	mixed with grave
Roch Refuse @18"			
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:			s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LRR R, MLRA 149B)		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) : Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 14		Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)		Surface (S7) (LRR K, L, M)
Stratified Layers (A5) Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)		alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	Redox Dark Surface (F6)		Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		nont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5) Stripped Matrix (S6)			Parent Material (F21) Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B	)		(Explain in Remarks)
	tland hydrology must be present, unless distur	bed or problemati	ic.
Restrictive Layer (if observed):			
Type: NA			<i>,</i>
Depth (inches):		Hydric Soi	I Present? Yes No
, , , , , , , , , , , , , , , , , , , ,	Constant or will		
	for auger starting at 18"	but does	not act as a
restrictive layer for	water penetration.		
·			
*			

Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 5 127 16			
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point; DP- 776			
Investigator(s): B. V. ars, N. D. tch- Section				
	lief (concave, convex, none): Concave Slope (%): COC/			
Landform (nillslope, terrace, etc.): Utates in the Local re	13 - 19 111659 Stope (%). — 17			
Subregion (LRR or MLRA): LRR-R Lat: 42,4405	291 Long: 77.111001 Datum: 14000			
Soil Map Unit Name: Crib - Chautaugua Sitt loam,	5-8 % Sluges NWI classification: UPICAL			
Are climatic / hydrologic conditions on the site typical for this time of year?	res X No (If no, explain in Remarks.)			
Are Vegetation				
Are Vegetation $n = 0$ , Soil $n = 0$ , or Hydrology $n = 0$ naturally problem				
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area			
Hydric Soil Present? Yes X No	within a Wetland? Yes No			
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland A626			
Remarks: (Explain alternative procedures here or in a separate report.)	The state of the s			
Isolated perm in a	. Forest.			
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soli Cracks (B6)			
Surface Water (A1) Water-Stained Leav				
High Water Table (A2) Aquatic Fauna (B13	·			
Saturation (A3) Marl Deposits (B15)	i i			
Water Marks (B1) Hydrogen Sulfide O	· · ·			
<u> </u>	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) and Iron (C4) Stunted or Stressed Plants (D1)			
Drift Deposits (B3) Presence of Reduce Algal Mat or Crust (B4) Recent Iron Reducti	· · · · · · · · · · · · · · · · · · ·			
Iron Deposits (B5) Thin Muck Surface				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes NoX Depth (inches):				
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pi	revious inspections), if available:			
Remarks:				
Tomato,	· ·			
	•			

	A 5 1 4 -	Dania and Indianta	T	
Tree Stratum (Plot size: 30')	% Cover	Dominant Indicator Species? Status	Dominance Test worksheet:	
			Number of Dominant Species	
1. not Applicable			That Are OBL, FACW, or FAC:	(A)
2			Total Number of Dominant	
3				(B)
				,
4			Percent of Dominant Species	(a (m)
5	<del></del>	<del></del>	That Are OBL, FACW, or FAC:	(A/B)
6			Barrel and a land and a land and a land	
			Prevalence Index worksheet:	
7			Total % Cover of: Multiply by:	
		= Total Cover	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: i5')			FACW species x 2 =	
1. not Applicable			FAC species x 3 =	_
• •			FACU species x 4 =	
2	<del></del> .		UPL species x 5 =	
3			Column Totals: (A)	
4			Column Totals (A)	(D)
			Prevalence Index = B/A =	
5			Undershide Verstalier Indicators	
6			Hydrophytic Vegetation Indicators:	
7			∠ 1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover	2 - Dominance Test is >50%	
Herb Stratum (Plot size:5 /)			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	20	V 001	4 - Morphological Adaptations <sup>1</sup> (Provide suppo	orting
1. Carex gynandra	$\frac{\alpha b}{\alpha b}$	Y OBL	data in Remarks or on a separate sheet)	
2. Onoclea Sensibilis	10	N FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
3. Luncus effusus	10	N OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıet
	<u> </u>	N FACW	be present, unless disturbed or problematic.	JOI
4. Fraxinus pennsylvanica	<del></del>	1710-		
5. Glyceria acutiflora	13	Y OBL	Definitions of Vegetation Strata:	
6			Tree ~ Woody plants 3 in. (7.6 cm) or more in diar	neter
7			at breast height (DBH), regardless of height.	
			Sapling/shrub - Woody plants less than 3 in. DBI	Н
8			and greater than or equal to 3.28 ft (1 m) tall.	
9				•
10			Herb – All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.	of
11				
<del></del>			Woody vines - All woody vines greater than 3.28 ft in	
12	100		height.	
,	<u> </u>	= Total Cover		
Woody Vine Stratum (Plot size: 30')				
1. not Applicable				
			Hydrophytic	
2			Vegetation	
3			Present? Yes X No	
4.				
	0	= Total Cover		
Remarks: (Include photo numbers here or on a separate	about \	Total Cover		
Remarks: (include photo numbers here of on a separate	sneet.)		had and Product	
Vegetation is hydric, meeting	both	the Fac-N	entral TEST and Rapid KST.	
vigencia. 13 rigories, in the				

Profile Desc	ription: (Describe	to the depti	n needed to docur	nent the ir	ndicator	or confirm	n the absence	of Indicators.)
Depth	Matrix (maint)			x Features	_ 1	. 2	<b></b> .	<b>.</b>
(inches) の"てん"	Color (moist)	95%	Syrulb	- %- = b/0	Type <sup>1</sup>	_Loc²	Texture SCL	<u>Remarks</u>
2"-11"	7.54613		104R 5/8			m	SCL	
11"-16"	7.54613		1042518					with grownel
				<del></del>				
				<del></del>		-		
<sup>1</sup> Type: C=Co	oncentration, D=Depi	etion, RM=I	Reduced Matrix, M	S=Masked	Sand Gra	ains.		n: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils³:
Histosol Histic Ep	(A1) pipedon (A2)	_	Polyvalue Belor	)			2 cm l Coast	Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Prairie Redox (A16) ( <b>LRR K, L, R</b> )
	n Sulfide (A4) I Layers (A5)	-	Thin Dark Surfa Loamy Mucky I	Mineral (F1	) (LRR K		Dark S	Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M)
Depleted	l Below Dark Surface		Loamy Gleyed Depleted Matrix	(F3)	)		Thin C	alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L)
Sandy M	ark Surface (A12) lucky Mineral (S1)	-	★ Redox Dark Su Depleted Dark	Surface (F	7)		Piedm	Ianganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B)
Sandy R	edox (S5)	-	Redox Depress	sions (F8)			Red P	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) Parent Material (F21)
	Matrix (S6) rface (S7) ( <b>LRR R, N</b>	ILRA 149B)	1					Shallow Dark Surface (TF12) (Explain in Remarks)
	hydrophytic vegetat		land hydrology mus	st be prese	nt, unless	disturbed	d or problemati	c.
Type:	N/A							. 4
Depth (inc	ches):		W. W				Hydric Soi	I Present? Yes X No No
l tomano.								
:								

Project/Site: Ball Hill Wind Project City/C	county: Chautauqua County Sampling Date: 5)27116					
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point; DP- 72.7-					
Investigator(s): B. Vints, N. Dutcher Section						
Landform (hillologe forrage etc.): 14:1151000 Local reli	ief (concave, convex, none): Slope (%): O ~ 10/c					
Subregion (LRR or MLRA): LRR-R Lat: 42.440486 Long: -79.111822 Datum: NAD 83						
Subregion (LRR or MLRA): Lat: 121/10/10	Long: Datum: U.S.					
Soil Map Unit Name: Ck13 - Chautauqua SiH loam, 3						
Are climatic / hydrologic conditions on the site typical for this time of year? Y	esX_ No (If no, explain in Remarks.)					
Are Vegetation 🔼 , Soil 📈 , or Hydrology 🕰 significantly distur	bed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation NO, Soil NO, or Hydrology NO naturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
While Deta Point for N	settled A626.					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leave						
High Water Table (A2) Aquatic Fauna (B13)						
Saturation (A3) Marl Deposits (B15)						
Water Marks (B1) Hydrogen Sulfide Od						
Sediment Deposits (B2) Oxidized Rhizospher						
Drift Deposits (B3) Presence of Reduce						
Algal Mat or Crust (B4) Recent Iron Reduction Iron Deposits (B5) Thin Muck Surface (in the control of the	·					
Iron Deposits (B5) Thin Muck Surface ( Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	,					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _X Depth (inches):						
Water Table Present? Yes No Depth (inches):						
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No 🗴					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:					
Remarks:						
No hydrology indicators found.						
, , , , , , , , , , , , , , , , , , , ,						
	·					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 36 <sup>2</sup> )		Species?		Dominance Test worksheet:
Parassississis	***************************************	<u> </u>	FACU	Number of Dominant Species
1. Knings Seroting		<del></del>	<del></del>	That Are OBL, FACW, or FAC:(A)
2. Acer Saccharum	40		FACU	Total Number of Dominant
3				Species Across All Strata:
0				(-)
4				Percent of Dominant Species That Are OBL FACW or FAC:  (A/B)
5				That Are OBL, FACW, or FAC:(A/B)
	•			
6				Prevalence Index worksheet:
7	<del></del>			Total % Cover of: Multiply by:
		= Total Cov	or	OBL species x 1 =
ال مني		- 10tai 00v	OI .	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: )5 <sup>1</sup>	~	v		1
1. Prinus Serotina	S	Y	FAKU	FAC species x 3 =
				FACU species x 4 =
2	<del></del> .			UPL species x 5 =
3				Column Totals: (A) (B)
				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Prevalence index = b/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
	_5_	= Total Cov	/er	1 —
Herb Stratum (Plot size:)				3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:)	فيم	<b>.</b>	20.	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Acer pensylvanicum			FACU	data in Remarks or on a separate sheet)
2. Rubus pensilvanicus	S	√.	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Acar Coul o		7		4
3. Acer Sauharum		<del></del>	FACU	¹Indicators of hydric soil and wetland hydrology must
4. Prunius Serotina		<u> </u>	FACU	be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
0			· ··	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH
8			<del></del>	and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb - All herbaceous (non-woody) plants, regardless of
10,			<del></del>	size, and woody plants less than 3.28 ft tall.
11	<del></del>			Woody vines - All woody vines greater than 3.28 ft in
12				height.
	20	= Total Co		
2 (		= Total Co	ver	
Woody Vine Stratum (Plot size: 30')				
1. not Applicable				
i				Hydrophytic
2				Vometation
3.				Present? Yes No X
4				·
		_ = Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
, , , ,	-		•	
No hydro vegetation obse	(vec) 1	ill soe	cies h	ove on indicator of FACU.
100 Mario Vegetario 3350	. , , ,	in Spec		, · · ·
1				

Profile Desc	ription: (Describe	to the dep	th needed to docun	ent the indic	ator or co	onfirm	the absence of indic	ators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>Features</u>	no <sup>1</sup> fo	2°	Texture	Remarks
0'-2"	- 1				pe	<u> </u>	SIL	Kemarks
2"-9"	1042416	100				<del></del> .		
9"-20"		100				<del></del>	SCL	·
	10912516	100			<del></del>		<u> </u>	
						·		
<del></del>						<del></del> -		
			<u></u>			<del></del>		
								·
<del></del>								
<del></del>			***			<del></del> .		***************************************
					<del></del>			
		letion, RM:	Reduced Matrix, MS	=Masked Sar	nd Grains.		<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric Soils³:
Histosol	(A1) ipedon (A2)		Polyvalue Below MLRA 149B)		(LRR R,			0) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		R, MLRA	149B)		eat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky M	lineral (F1) ( <b>L</b>			Dark Surface (	S7) (LRR K, L, M)
	l Layers (A5) I Below Dark Surfac	- (Δ11)	Loamy Gleyed Matrix					w Surface (S8) (LRR K, L) ace (S9) (LRR K, L)
	rk Surface (A12)	C (A11)	Redox Dark Sur					se Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Depleted Dark S	Surface (F7)				dplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4) edox (S5)		Redox Depressi	ons (F8)				TA6) (MLRA 144A, 145, 149B)
	Matrix (S6)						Red Parent Ma	Dark Surface (TF12)
	face (S7) (LRR R, M	/ILRA 1498	3)				Other (Explain	
<sup>3</sup> Indicators of	hydrophytic vegetat	ion and we	etland hydrology mus	t be present, ι	ınless dist	turbed o	or problematic.	
Restrictive L	ayer (if observed):							
Type:	N/A	-						
Depth (inc	nes):						Hydric Soil Presen	t? Yes No <u>×</u>
M	ut a hydric	Soil.						
,								•
								,

Project/Site: Ball Hill Wind Project City/0	County: Chautauqua County Sampling Date: 5/27/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-728
··	
Investigator(s): B. V.273, N. Dictuer Section	
Landform (hillslope, terrace, etc.): 1020+51002 Local rel	lief (concave, convex, none): Lancon Slope (%): 0 -1%
Subregion (LRR or MLRA): LRR-R Lat: 42.44 140	
Soil Map Unit Name: Valois grovelly 5. 1+ loam,	RWI classification: Pland
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation No., Soil No., or Hydrology No. significantly distur	,
Are Vegetation [140], Soil [140], or Hydrology [140] naturally problem.	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Is the Sampled Area ·✓
Hydric Soil Present?  Yes X No	within a Wetland? Yes No
Wetland Hydrology Present?	If yes, optional Wetland Site ID: Wortland PEZ7
Remarks: (Explain alternative procedures here or in a separate report.)	i yes, optional violatic oto ib.
PFO wetland data point.	
	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	es (B9)
∠ High Water Table (A2)      Aquatic Fauna (B13)	) Moss Trim Lines (B16)
✓ Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Oc	dor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphe	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	· ·
Algal Mat or Crust (B4) Recent Iron Reducti	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	<u>⊁</u> FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 4	<u> </u>
Saturation Present? Yes X No Depth (inches): O	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:
Describe (Gooded Data (Glocalli gauge, montering well, acrial pricted, pr	onodo inopodionej, ii dvanapio
Remarks:	
1	

Tree Stratum (Plot size: 30')		Dominant Species?		Dominance Test worksheet:
				Number of Dominant Species
1. Betula alleghaniensis	6000	A67	FAL	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant .
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)
5,	<del></del>			mar Ale OBE, I AGW, GIT AG (A/B)
6			· ————	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co		
15.	_00	= lotal Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
1. Betwee alleghaniersis	50	125	FAC	FAC species x 3 =
2. Tsinga Coraderas		Yes	PACH	FACU species x 4 =
•				UPL species x 5 =
3	<del></del>	<del> </del>	•	Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6,		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	<del></del>	
7				1 - Rapid Test for Hydrophytic Vegetation
	30	= Total Co	ver	∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')		•		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	7.	<b>V</b> 1	C \	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	70	yes	FALL	data in Remarks or on a separate sheet)
2. Onoclea Sensibilis	10	70	FACIN	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				Carling/about Mandaglants land the C. D. D.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and grouter than or equal to elect (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12				height.
	80	= Total Co	ver	
Woody Vine Stratum (Plot size: 36')				1
1. hos opplicable		•		Hydrophytic
2				Vegetation
3				Present? Yes X No
4				,
*•				
		_ = Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Trees he rooted on	<b>*</b>	STORT TO A	arcor.	c Lians
The same of the same of	.,		1.1.	- <b>,</b> -,

Depth   Matrix   Color (most)   %   Color (most)   %   Type   Loc <sup>2</sup>   Texture   Remarks	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soll Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Gleyed Matrix (S6)  Dark Surface (S7)  Thin Dark Surface (T12)  Cherrical Mucky Mineral (S1)  Sandy Gleyed Matrix (S6)  Dark Surface (S7)  Thin Dark Surface (T12)  Other (Explain in Remarks)  Phydric Soil Present? Yes No			Redox F	<u>eatures</u>				
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  *Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Histo (A3)  Hydrogen Sulfide (A4)  Straffied Layers (A5)  Depleted Below Dark Surface (S9) (LRR R, L)  Depleted Below Dark Surface (S9) (LRR K, L)  Thin Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (A56)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Gleyed Matrix (S4)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Gleyed Matrix (S4)  Sandy Redox (A56)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (A56)  Sandy Gleyed Matrix (S6)  Sandy Redox (A56)  Sandy Redox (A56)  Sandy Gleyed Matrix (A4)  Sandy R		Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    Hydric Soll Indicators:   Indicators for Problematic Hydric Soils¹:   Indicators for Problematic Hydric Soils (Fig. Hydric Soil   LRR K, L, M;	<u>ల''-జ"</u>	Pea+		<del></del> .				
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    Hydric Soll Indicators:   Indicators for Problematic Hydric Soils¹:   Indicators for Problematic Hydric Soils (Fig. Hydric Soil   LRR K, L, M;	m'120"	1000211 mucky	Pacit					
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No					•			
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No					<del></del>		<del></del>	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No				<del></del> _				
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No				<del></del>	<del></del>		<del></del>	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								· · · · · · · · · · · · · · · · · · ·
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No	ļ							
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								•
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No				<del>,</del>	<del></del>			
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No						·····		
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  Type: N/A  Depth (inches): MRA 149B)  **Indicators Soil Indicators (S8) (LRR K, L, MLRA 149B)  Hydric Soil Present? Yes No	<sup>1</sup> Type: C=Co	ncentration, D=Depletion, RM	=Reduced Matrix, MS=	Masked S	Sand Gra	ins.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (A11)  Endown Mucky Mineral (F2)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L, M)  MERA 149B)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S9) (LRR K, L, R)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Sandy Redox (S7) (LRR R, MLRA 149B)  Surface (S7) (LRR R, MLRA 149B)  Surface (S7) (LRR R, MLRA 149B)  Sandy Redox (S7) (LRR R, MLRA 149B)  Surface (S7) (LRR R, MLRA 149B)  Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present? Yes No						······ - ········		
Black Histic (A3)	Histosol	(A1)	Polyvalue Below 8	Surface (	S8) ( <b>LRR</b>	R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Pepleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  *Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Histic Ep	ipedon (A2)	MLRA 149B)					
Stratified Layers (A5)								
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)  Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: N/A  Depth (inches): Hydric Soil Present? Yes No					(LRR K,	L)		
Thick Dark Surface (A12)	L							
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Sandy Redox (S5) Red Parent Material (F21)  Stripped Matrix (S6) Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  *Restrictive Layer (if observed):  Type: N/A  Depth (inches): Hydric Soil Present? Yes No								
Sandy Gleyed Matrix (S4)Redox Depressions (F8)Red Parent Material (F21)Stripped Matrix (S6)Stripped Matrix (S6)Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:NA Depth (inches): Hydric Soil Present? Yes No					<b>'</b> \			
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):					,			
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: N/A  Depth (inches): Hydric Soil Present? Yes No				(,				
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:NA  Depth (inches):  Hydric Soil Present? YesNo								
Restrictive Layer (if observed):  Type:NA  Depth (inches):  Hydric Soil Present? YesNo	Dark Sur	face (S7) ( <b>LRR R, MLRA 149</b> I	3)				Other (E	xplain in Remarks)
Restrictive Layer (if observed):  Type:NA  Depth (inches):  Hydric Soil Present? YesNo	3							
Type:         N/A           Depth (inches):         Hydric Soil Present? Yes No			etland hydrology must b	e preser	nt, unless	disturbed	or problematic.	
Depth (inches): Hydric Soil Present? Yes No		- ',						
								<b>√</b>
Remarks:	Depth (inc	hes):					Hydric Soil P	resent? Yes No
	Remarks:							
	,							

Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 5)27116 State: NY Sampling Point: DP-724					
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 724					
Investigator(s): B. V. 275, N. Dutahar Section, Township, Range: Town of Homover						
Investigator(s): 3. (225, N. Out a) Section Landform (hillslope, terrace, etc.): 11.115 CR2 Local rel Subregion (LRR or MLRA): LRR-R Lat: 42, 4412 Soll Map Unit Name: Value Soll Name: Value	on, Township, Range: Town of Hemouse lief (concave, convex, none): Convex Slope (%): 3.59  17 Long: -79.111394 Datum: NAD 83  18 No NWI classification: VPlance  (es X No (If no, explain in Remarks.)  The Remarks No No No No No No No No No No No No No					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)	Moss Trim Lines (B16)  Dry-Season Water Table (C2)  dor (C1)  Crayfish Burrows (C8)  res on Living Roots (C3)  defined fron (C4)  on in Tilled Soils (C6)  Shallow Aquitard (D3)					
Water Table Present? Yes No Depth (inches):						
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	Wetland Hydrology Present? Yes No revious inspections), if available:					
Remarks: No hydro indicators observed.						

		<u> </u>	,
Tree Stratum (Plot size:)	Absolute	Dominant Indica Species? Statu	
			Number of Dominant Species
1. TShya canadensis	<i>'</i> >0	Yes FAC	That Are OBL, FACW, or FAC: (A)
2. Acer Saccharum	30	YES FAC	h
			Total Number of Dominant Species Across All Strata: (B)
3			Species Across Air Strata.
4			Percent of Dominant Species That Are OBL, FACW, or FAC:
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	A.A.	= Total Cover	OBL species C x1 = C
	_00_	- Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			PACVV species XZ =
1. Fages gardiblia	20	YES FAL	FAC species 15 x3 = 45
1 _			FACU species 120 x4 = (180
2	<del></del> .		UPL species5 x5 =25
3			— Column Totals: 14c (A) 55c (B)
4.			Column Totals: 1912 (A) 335 (B)
			Prevalence Index = B/A = 3, 9 3
5			Hydrophytic Vegetation Indicators:
6			
7			1 - Rapid Test for Hydrophytic Vegetation
	20	= Total Cover	2 - Dominance Test is >50%
		, rotal covol	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size:)	سيرر	V	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Parathelypteris noveborner			
2. Frys grand. Folice	16	YES FAL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Beer Saccharum	5	170 FM	
4. Acer platancides	5	NO 4P	be present, unless disturbed or problematic.
5. Rubus allegheniersis	5	NO FAC	
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
7			O W the state to the state of the s
8			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			and greater than or equal to 5.26 it (1 iii) tail.
			Herb - All herbaceous (non-woody) plants, regardless of
10	<del></del>		size, and woody plants less than 3.28 ft tall.
11	<del></del>		
12.			Woody vines – All woody vines greater than 3.28 ft in height.
,	1/2		neight.
	40	= Total Cover	
Woody Vine Stratum (Plot size: う ン)			
1. DOT Applicable			
1. TOT TIPPITELISTE			Hydrophytic
2			──   Vegetation
3			Present? Yes No
4			
	<u> </u>	_ = Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		
1			

Profile Desc	ription: (Describe t	o the dept	h needed to docume	ent the indicator o	or confirm t	he absence of i	ndicators.)		
Depth	Matrix	<del></del> .		Features _	. 2		~ '		
(inches)	Color (moist)		Color (moist)			Texture	Remarks		
0'20'	7,5424/1					ラエレ Sエレ			
7"-20"	loge 516	100				<del></del>			
			<del></del>						
								:	
	<del></del>								
<del></del>			<del></del>						
<del></del>									
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS=	=Masked Sand Gra	ains.		PL=Pore Lining, M=Ma r Problematic Hydric		
Hydric Soil			Polygoluo Polog	Surface (SR) (LDE	D D		k (A10) (LRR K, L, M		
Histosol	oipedon (A2)	•	MLRA 149B)	Surface (S8) (LRF	<b>、Γ</b> .,		airie Redox (A16) (LR	-	
	stic (A3)			e (S9) ( <b>LRR R, M</b> I	RA 149B)	5 cm Muc	ky Peat or Peat (S3)	(LRR K, L, R)	
	en Sulfide (A4)			neral (F1) ( <b>LRR K</b>	, L)		ace (S7) (LRR K, L, I		
	Layers (A5)		Loamy Gleyed M				Below Surface (S8)		
	d Below Dark Surface ark Surface (A12)	(A11) .	Depleted Matrix ( Redox Dark Surf			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)			
	fucky Mineral (S1)	•	Depleted Dark S			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Bleyed Matrix (S4)		Redox Depression			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Redox (S5)						ent Material (F21)		
	Matrix (S6)					•	llow Dark Surface (TF	12)	
Dark Su	rface (S7) (LRR R, M	LKA 149B	)			Other (Ex	rplain in Remarks)	-	
3Indicators o	f hydrophytic vegetati	on and we	tland hydrology must	be present, unless	s disturbed	or problematic.			
Restrictive	Layer (if observed):								
Туре:	N/A								
Depth (in	ches):					Hydric Soil Pr	resent? Yes	No <u> </u>	
Remarks:									
٨	lot a hydric	Soil							
	10, 01 1190 12	O. 7,							
								•	
,				*					
i									

	City/County: Chautauqua County Sampling Date: 6/6/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-730
Investigator(s): B. Vints/N. Dutche :	Section, Township, Range: TOWN OF HOUSE
Landform (hillslope, terrace, etc.): Depression Daingur Loc	al relief (concave, convex, none): Concave Slope (%): Oo/o
Subregion (LRR or MLRA): LRR-R Lat: 42.14396	55 Long: <u>-79.128 139</u> Datum: NAD 83
Soil Map Unit Name: Chantaugus Silt Loam,	3 to 8% Sloom NWI classification: UPland
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No (If no, explain in Remarks.)
Are Vegetation NO, Soil NO, or Hydrology NO significantly	
Are Vegetation NO, Soil NO, or Hydrology NO naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesX No	is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland A628
Remarks: (Explain alternative procedures here or in a separate repor	
lines DEM westland	vittin a Pasture Field
Lipeti (Constitution)	01 1 Fin to 103 inoc 1 1 2 10 -
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained I	Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna	
Saturation (A3) Mari Deposits (I	
Water Marks (B1) Hydrogen Sulfice	
	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Re	
	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surf Inundation Visible on Aerial Imagery (B7) Other (Explain	
Sparsely Vegetated Concave Surface (B8)	K FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches)	);
Water Table Present? Yes No _X Depth (inches)	):
Saturation Present? Yes No _X Depth (inches)	): Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo	ns previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring won, donar priore	, pre-19-00-11-11-11-11-11-11-11-11-11-11-11-11-
Remarks:	. 1.0
Geomorphic positioning used because area	is in a low/linear area between two
Lugh Cur	
Tolong trelds,	
e e e e e e e e e e e e e e e e e e e	
·	
*	

VECETATION — Ose scientific flames of plants	•			Outsipusing Found
72.	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30')	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. not Applicable				That Are OBL, FACW, or FAC:(A)
				THAT ALE ODE, I AOW, OF FAC.
2				Total Number of Dominant
3				Species Across All Strata: (B)
· · ·				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
1	<u>#</u> _	= Total Cov	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	e in the second			FACW species x 2 =
				FAC species x 3 =
1. not Applicable			<del></del>	FACU species x 4 =
2				
3				UPL species x 5 =
3				Column Totals: (A) (B)
4				
				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
		= Total Cov	/er	<del></del>
Herb Stratum (Plot size:5')				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		17		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Jurus effusus	30	<u> </u>	OBL	data in Remarks or on a separate sheet)
2. Carex Iupulina	5 S	Y	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		N		
3. Carex Hava	10		OBC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Eupateium perfoliatum	5	N	FACW	be present, unless disturbed or problematic.
				Definitions of Vocatation Strate:
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9			· ——	Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				sizo, and woody plants loss than 5.25 it tail.
			. ——	Woody vines - All woody vines greater than 3.28 ft in
12		<u> </u>		height.
	100	= Total Cov	/Dr	
2.1		- 10101 001	101	
Woody Vine Stratum (Plot size: 30)				
1. not Apolicable				
				Hydrophytic
2				Vegetation V
3.				Present? Yes No
		***************************************		·
4				
	_ <i></i>	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			I
			, ,	drich -
Vegetation meets both Rapid To	est and	tac no	eural	1Cit.
,				
				3
				į
•				

Profile Desc	cription: (Describe	to the dept	th needed to docum	nent the i	ndicator	or confirm	the absence		impling Collin.	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features	i	_Loc²	Tardura	F	) - m - m	
O'L'	10422)1	95	2.54611	<u>-%</u> 5	Type <sup>1</sup>	LOC	Texture STL	<u></u>	Remarks	
9"-14"	7.546/1	100					SIL			
	351611	<u></u>					326			
	<u> </u>							~		
										· · · · · ·
		· <del></del> -				***************************************				
				****						
		<del></del> .								
								<del></del>		·
		· <del></del> .	·							· 
	***									<del> </del>
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location	: PL=Pore Linin	g, M=Matrix.	3
Hydric Soil I Histosol			Polyvalue Belov	v Surface i	(S8) /I <b>D</b> E	) D		for Problemation (LRR	•	
Histic Ep	pipedon (A2)	•	MLRA 149B)		(30) ( <b>Li</b> ti	<b></b>		Prairie Redox (A		
Black His	stic (A3) n Sulfide (A4)	. •	Thin Dark Surfa Loamy Mucky M					lucky Peat or Pe urface (S7) ( <b>LR</b>		K, L, R)
Stratified	Layers (A5)		Loamy Gleyed N			, L)		lue Below Surfa		۲, L)
	l Below Dark Surface irk Surface (A12)		Depleted Matrix					ark Surface (S9)		K I D)
	ucky Mineral (S1)		Redox Dark Sur Depleted Dark S		7)			anganese Mass ont Floodplain S		
	leyed Matrix (S4)	-	Redox Depressi	ons (F8)				Spodic (TA6) (M		5, 149B)
	edox (S5) Matrix (S6)							arent Material (F hallow Dark Sur		•
Dark Sur	face (S7) (LRR R, N	ILRA 149B	)					Explain in Rema		
3Indicators of	hydrophytic vegetat	ion and wet	iland hydrology mus	t be prese	nt, unless	disturbed	or problematic			
Restrictive L	.ayer (if observed):	**************************************	····							
Type:	N/A						Hydric Soil	D	s <u>火</u> No	
Depth (inc	mes)		· · · · · · · · · · · · · · · · · · ·				Hydric Soil	Present/ Te	s No	<u>'</u>
										:
										•
			•							
į										
										l

Project/Site: Ball Hill Wind Project City/Co	unty: Chautauqua County Sampling Date: Ululu
Mar. 21 ( 1111 ) A 21 ( 1 MM)	State: NY Sampling Point: DP-731
Investigator(s): Ben Vints and Nicole Dutcher Section	1, Township, Range: TOWN of Haroner
Landform (hillslope, terrace, etc.): hillslope Local relie	
Subregion (LRR or MLRA): LRR-R Lat: 42.443984	Langu - 79, 128762 Datum: NAD 83
Soil Map Unit Name: Chantangua 5: 1+ Loam, 3+08	
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	1
Are Vegetation $\underline{\mathcal{N}_{\mathcal{O}}}$ , Soil $\underline{\mathcal{N}_{\mathcal{O}}}$ , or Hydrology $\underline{\mathcal{N}_{\mathcal{O}}}$ significantly disturb	
Are Vegetation $\overset{\sim}{\sim}^{\circ}$ , Soil $\overset{\sim}{\sim}^{\circ}$ , or Hydrology $\overset{\sim}{\sim}^{\circ}$ naturally problematically	lc? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No 🗡	Is the Sampled Area
i i i ydrophiydd y dgolddolf i foschit:	within a Wetland? Yes No X
1	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	ii yoo, opilolii ii oo aa aa aa aa aa aa aa aa aa aa aa aa
Upland data point to Wetland A 628.	
Opiano Clara point 118 weriano 11 0000	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odo	r (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphere	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	
Sparsely Vegetated Concave Surface (B8) Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present?  Yes No _X Depth (inches):	
Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections), if available:
Remarks:	
No hydrology indicators observed, none of	b b avaitable as Cul
7 11 20301.23, 11812	The expected in open tred that is
Flat.	Section 1

VECETATION — Ose scientific flames of plants.	•		Oamping Folia
20/0		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)		Species? Status	Number of Dominant Species
1. Not Applicable		· · · · · · · · · · · · · · · · · · ·	That Are OBL, FACW, or FAC:(A)
2			
			Total Number of Dominant Species Across All Strate:  (B)
3			Species Across All Strata: (B)
4			Barrant of Barriagnt Casalas
4			Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
5			mat Ale OBL, FACW, of FAC (AVB)
6			
			Prevalence Index worksheet:
7		<del></del>	Total % Cover of: Multiply by:
	Ø	= Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15 'R)			FACW species x 2 =
Sapling/Snrub Stratum (Plot size: 13 K			11(1 120
1. Not Applicable		***************************************	· · · · · · · · · · · · · · · · · · ·
2		Taken	FACU species 49 x4 = 196
			UPL species
3		<u> </u>	Column Totals: 100 (A) 363 (B)
4		,	Column Totals (A) (B)
			Prevalence Index = B/A = 3,43
5		·	Frevalence Index - D/A - 37 - 3
6			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
7			1
	Ø	= Total Cover	2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 R)		1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Ranunculus acris		N FAC	data in Remarks or on a separate sheet)
2. Dactylis glomerata	34	Y FACU	Problematic Hydrophytic Vegetation¹ (Explain)
	<del></del>		robinitationiyatopiiyato rogotation (Explain)
3. Infolium repens	<u> </u>	1770	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Daucus Carota	2	N UPL	be present, unless disturbed or problematic.
	5	N UPL	Definitions of Variation Strate.
5. Trifolium medium		<del></del>	Definitions of Vegetation Strata:
6. Plantago lanceulata	5 /	N FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Archim minus	5	N FACU	at breast height (DBH), regardless of height.
8. Muhlenbergia Schreberia	34	Y PAC	Sapling/shrub - Woody plants less than 3 in. DBH
0			and greater than or equal to 3.28 ft (1 m) tall.
<u> </u>		F	Herb – All herbaceous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11			
			Woody vines - All woody vines greater than 3.28 ft in
12		<del></del>	height.
	100	= Total Cover	<u> </u>
Washing Status (Distains 201 P )			
Woody Vine Stratum (Plot size: 30' R )			
1. Not Applicable			
2			Hydrophytic
			Vegetation X
3			Present? Yes No
4.			·
		= Total Cover	
Remarks: (Include photo numbers here or on a separate s	heet.)		
			·
		•	

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the i	ndicator o	or confirm	the absence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Redo	x Feature	<u>Type<sup>1</sup></u>	Loc²	Texture	Domori	<b>.</b>
()-12	2.5Y 3/3	1005	Color (moist)		Type	LOC	SiL	Remarl	(8
12-14	2,5Y 3/2	95	IUYR B/6	5	$\overline{C}$	<u>M</u>	SiL		
14-20	2,57 4/4	<b>8</b> 5	254 5/1	-5	$\frac{1}{2}$				
1120	2,51 74				<del>-</del>	<u></u>	51L	**************************************	· · · · · · · · · · · · · · · · · · ·
<del></del> -			54R3/3	10		<u>M</u>			
						<del></del>			
	****								
									· 
						<del></del>	****		
			· · · · · · · · · · · · · · · · · · ·						·
¹Type: C=C	oncontroller D-Deni	ation DM	Dadward Market NA				21	Dana Lining Mai	Market .
Hydric Soil	oncentration, D=Depl Indicators:	cuon, KM=	-кеспсес матлх, М	o≕iMasked	sand Gra	IIIS,	Indicators for P	Pore Lining, M=I roblematic Hydi	
Histosol	, ,		Polyvalue Belo	w Surface	(S8) ( <b>LRR</b>	R,		A10) ( <b>LRR K, L,</b>	
	oipedon (A2)		MLRA 149B		DD D 441	DA 440D)		Redox (A16) (L	
	stic (A3) n Sulfide (A4)		Thin Dark Surfa					Peat or Peat (S3 e (S7) ( <b>LRR K, L</b>	
Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2		-,	Polyvalue Be	elow Surface (S8	) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Matrix Redox Dark Su					urface (S9) ( <b>LRR</b> iese Masses (F1	
	lucky Mineral (S1)		Depleted Dark						19) (MLRA 149B)
	Bleyed Matrix (S4)		Redox Depress	ions (F8)					144A, 145, 149B)
	ledox (S5) Matrix (S6)							Material (F21) v Dark Surface (1	TF12)
• •	rface (S7) (LRR R, M	ILRA 1498	3)					in in Remarks)	
3Indicators of	f hydrophytic vegetati	ion and wa	tland budgalagu mud	t ha neas	nt unlass	المصطعر بالمطألم	or problemette		
	_ayer (if observed):	on and we	uand nydrology mus	st be prese	ent, unless	aisturbea	or problematic.		
Type:	JA.								S. 4
Depth (inc	ches):						Hydric Soil Pres	ent? Yes	No <u>X</u>
Remarks:	1								
Not a	hydric soil.								
	75 05 1		•						
								,	
			•						
,		•							
				÷ "					
			•						

WEILAND DETERMINATION DATA FOR	KM – Northcentral and Northeast Region
	County: Chautauqua County Sampling Date: UIG
Applicant/Owner: Ball Hill Wind Energy, LLC	State; NY Sampling Point: DP- 732
Investigator(s): Ben Vitt and Nice Outher Section	on, Township, Range: Town of Hanover
	ief (concave, convex, none): Slope (%): 1 - 57.
Subregion (LRR or MLRA): LRR-R Lat: 42.449316	
Soil Map Unit Name: Fremont 5: 1+ loams, 3-82 51	
Are climatic / hydrologic conditions on the site typical for this time of year?	1
Are Vegetation No., Soil No., or Hydrology No. significantly distur	
Are Vegetation No , Soil No , or Hydrology No naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydrophytic Vegetation Present?  Yes X No  Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Duetland A 629
Remarks: (Explain alternative procedures here or in a separate report.)	
Large PFO wetton along transitional ed	ge between Geld and Upkar brown
9	γ
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leave	es (B9) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Oc	
	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (	C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	→ FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	
Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Proceedings of the second of t	
Remarks:	half the half of Dai
vere statues were found into	ghout the wetland. Drainage patterns
run through thee Center of the wetlar	d. Exidence of All I I I
of the well	the chick of Higal maticust in
eastern edge of wetland not where dat	in point was taken
141.06.6	

Tree Stratum (Plot size: 15'R) 1. Fraxings pennsylvanica	Absolute % Cover	Dominant Species?		Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:
2. Acer rubrum 3.		Y	FAC	Total Number of Dominant Species Across All Strata:  (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 83, 33 (A/B)
5				
7.				Prevalence Index worksheet:
	80	= Total Cov	/er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15' R )				FACW species x 2 =
1. Ostrya Virginiana	40	Υ	FACU	FAC species x 3 =
2. Frzizinus pennsylvanica		Y	FIACU	FACU species x 4 =
3. Acer pubrum		N	FAL	UPL species x 5 =
4. Lonicera japonica		N	FACU	Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	77	= Total Cov	er er	× 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5'R)			1	3 - Prevalence Index is ≤3.0¹
1. Onoclea Sensibilis	30	<u> </u>	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Toticodendron radicans	15	<u>Y</u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Symphystrichum prenanthoides	2	N	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Eguisetum palustre	2	<u>N</u>	FACW	be present, unless disturbed or problematic.
5. Poclophyllum pelatum		<u>N</u>	FACU	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12				Woody vines - All woody vines greater than 3.28 ft in height.
	54	= Total Cov	er .	
Woody Vine Stratum (Plot size: 15'R)				
1. Not Applicable				
2.				Hydrophytic
3.				Vegetation   Present?   Yes No
4.				
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)		.,	
Tree vegetation plot was adj	usted	to acc	unance.	date size of wetland
- -				
•	•			
				*
			•	

Profile Desc	cription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of Indicators.)		
Depth (inches)	Matrix Color (moist)		Redo: Color (moist)	k Features %	<u>Type</u> 1	Loc2	Texture	Remarks		
0-7	0.54 2.5/1	95	7.5 YR 3/4	5	-13.ba	M	SiL	- Comany		
7-15	104R 41,	90	7.5 YR 4/6	10	$\frac{\circ}{\circ}$	M.	Sil.			
15-20	2.544/2	85	10484)6	15	<u> </u>	M.	CI			
<u></u>	•			1						
		<u></u> .								
		*****************								
· · · · · · · · · · · · · · · · · · ·							<del>-</del>			
	***************************************									
	<del></del>	<del></del> .					<del></del>			
			· · · · · · · · · · · · · · · · · · ·	<del></del>		<del></del> .				
		<del></del> .			***************************************					
1Type: C=C	oncentration, D=Deple		Reduced Matrix MC				21 ocation	: PL=Pore Lining, M=Matrix.		
Hydric Soil		SHOTI, IXIVI	rteudceu Mairix, Mc	- IVIASKEU	TOAIIU OIG			for Problematic Hydric Soils <sup>3</sup> :		
Histosol	• •		Polyvalue Below		(S8) (LRF	R,		Muck (A10) (LRR K, L, MLRA 149B)		
	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		.RR R, ML	.RA 149B)		Prairle Redox (A16) ( <b>LRR K, L, R</b> ) Nucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
Hydroge	en Sulfide (A4)	•	Loamy Mucky N			, <b>L)</b>		Surface (S7) (LRR K, L, M)		
	d Layers (A5) d Below Dark Surface	(A11)	Loamy Gleyed I Depleted Matrix		·)		Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)			
Thick Da	ark Surface (A12)		X Redox Dark Su	face (F6)			Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Mucky Mineral (S1) Bleyed Matrix (S4)	•	Depleted Dark S Redox Depress		·/)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy R	Redox (S5)		•	, ,				arent Material (F21)		
	l Matrix (S6) rface (S7) ( <b>LRR R, M</b>	LRA 149B	)					hallow Dark Surface (TF12) (Explain in Remarks)		
<sup>3</sup> Indicators o	f hydrophytic vegetation	on and we	tland hydrology mus	t be prese	ent, unless	disturbed	or problematio	<b>.</b>		
Restrictive I	Layer (if observed):			<u>·</u>						
Type:	ahaa)ı .	·					Hydric Soil	Present? Yes X No		
Depth (inc	cnes)						Hydric 30ii	Fresenti 163 TT NO		
							.*			
,								,		
				•						

WEILAND DETERMINATION DATA FOR	RM - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project City/0	County: Chautauqua County Sampling Date: 6 16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-133
Investigator(s): Ben Virts and Nicole Outster Secti	ion, Township, Range: Town of Hanover
Landform (hillslope, terrace, etc.): hillslope Local rel	lief (concave, convex, none): Convex Slope (%): 5-10
Subregion (LRR or MLRA): LRR-R Lat: 47.449514	Long: -79.137357 Datum: NAD 83
Soil Map Unit Name: Fremont Silt Loam, 3-82 slop	Des NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation No., Soil No., or Hydrology No. significantly distu	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No, Soil No, or Hydrology No naturally problem	
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes X No Yes No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Upland data point for wetlands Al	029 and A63n
per a competition of the	, , , , , , , , , , , , , , , , , , ,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13	1
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Oc	The state of the s
	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  d Iron (C4) Stunted or Stressed Plants (D1)
Drift Deposits (B3) Presence of Reduce	ion in Tilled Soils (C6) Geomorphic Position (D2)
Algal Mat or Crust (B4) Recent Iron Reducti Iron Deposits (B5) Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes NoX_ Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes NoX Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
No hydrodogy indicators found. He	
1 2299 1 110 Colors 40000, 18	
section 1 who	
·	

VEGETATION — Ose scientific flames of plants	<del></del>			
Tree Stratum (Plot size: 15' R)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Acer Sacharum		Y	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
2. Faxious pensylvanica		Ż	FACW	That Are OBL, FACW, OF FAC: (A)
· · · · · · · · · · · · · · · · · · ·				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species 1902
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7,				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15/2)	<del></del>		<b>O</b> 1	FACW species x 2 =
• •	25	Υ	FALU	FAC species x3 =
1. Acer Saccharum			Trico	FACU species x 4 =
2	<del></del> .	···		UPL species x 5 =
3				Column Totals: (A) (B)
4				Column Totals. (A)
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
4	25	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5'12)				4 - Morphological Adaptations¹ (Provide supporting
1. Toxicodendron radicans	60	<u> </u>	FAC	data in Remarks or on a separate sheet)
2. Rubrus pensilvanicus	10	N	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Acer Saccharum	10	$\overline{N}$	FACU	11-dia-ton of hudrin and modern developed
and the second s		$\overline{N}$	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Fraxinus Pennsylvanica				
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	85	= Total Cov	er	
Woody Vine Stratum (Plot size: 15'2)				·
1. Toxicodendron radicans	S	Υ	FAC	1
2				Hydrophytic
2				Vegetation Present? Yes X No
3	•			Present? Yes No
4			·	•
	5	= Total Cov	er	•
Remarks: (Include photo numbers here or on a separate	sheet.)		<del></del>	
Vegetation is burderline but	. 000	- h da	shuti-	
process is burner inc our	ir west	rigore	عا با باسم	i aju renento

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix Color (moist)	<del>%</del>	Redo Color (moist)	x Features		Loc <sup>2</sup>	Taratuma	Remar	
(inches)	104K 3/2		Color (moist)	%		LOC		Remar	KS
		100	***************************************				<u>Si</u> _	······································	<del></del>
6-20	2.54 4/4	<u>                                      </u>					SL_		
						<del></del>			
									-
· · · · · · · · · · · · · · · · · · ·									
									l
									<u> </u>
		letion, RM:	=Reduced Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: F	PL=Pore Lining, M=	Matrix.
Hydric Soil I								r Problematic Hyd	i i
Histosol	, ,		Polyvalue Belov		(S8) ( <b>LRR</b>	R,		ck (A10) (LRR K, L,	
Histic Ep	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		RRR MI	RA 149R)		airie Redox (A16) ( <b>L</b> cky Peat or Peat (S	
l	n Sulfide (A4)		Loamy Mucky N					face (S7) (LRR K, L	
	l Layers (À5)		Loamy Gleyed			_,		e Below Surface (S8	
	Below Dark Surface	e (A11)	Depleted Matrix					k Surface (S9) ( <b>LRR</b>	
	ark Surface (A12)		Redox Dark Su					ganese Masses (F1	
	lucky Mineral (S1)		Depleted Dark	•	7)			t Floodplain Soils (F	
	leyed Matrix (S4)		Redox Depress	ions (F8)				odic (TA6) (MLRA	144A, 145, 149B)
	edox (S5) Matrix (S6)							ent Material (F21) allow Dark Surface (	TE12)
	rface (S7) ( <b>LRR R, N</b>	NLRA 1496	3)					xplain in Remarks)	
								,	
			etland hydrology mus	t be prese	nt, unless	disturbed	or problematic.		
Type:	_ayer (if observed): N/A								1
Depth (inc	<del>-1</del>	<del></del>					Hydric Soil Pr	resent? Yes	No <u>×</u>
Remarks:	nes):						Hydric Soli Fi	resent? Yes	NO
Ner	a hydric :	c.(1							
, , ,	- rigone	2011.							
									ļ

WEILAND DETERMINATION DATA FOR	
Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 6/6/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DF- 7 5
Investigator(s): Ben Virts and Miche Ditcher Section	on, Township, Range: Town of Hanover
Landform (hillslope, terrace, etc.): Acores Local reli	ief (concave, convex, none): Concave Slope (%): 1-37.
Subregion (LRR or MLRA): LRR-R Lat: 47.44 タティ	11 Long: -79.132479 Datum: NAD 83
Soil Map Unit Name: Fremont Silt Loam, 3-82 Slope	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	· ·
Are Vegetation No., Soil No., or Hydrology No. significantly distur	,
Are Vegetation N., Soil No, or Hydrology No naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: Wetland A 630
Remarks: (Explain alternative procedures here or in a separate report.)	
Pem wetland also also also also and age	n feld ship hand to do it is
Pem wetland along edge of upland and open Open area turns into upland field	The stight topyrephic depression before
yen aren turnsinto upland field	
<b>'</b>	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	· · · · · · · · · · · · · · · · · · ·
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Od Sediment Deposits (B2) Oxidized Rhizospher	
Sediment Deposits (B2) X Oxidized Rhizospher Drift Deposits (B3) Presence of Reduced	· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (0	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rei	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes NoX Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	$\checkmark$
Saturation Present? Yes NoX_ Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Water Stained Leones found throughout	the wetland
The state of the s	
	·

VEGETATION - Use scientific flames of plants	· · · · · · · · · · · · · · · · · · ·			Sampling Found
10 v 2 o	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10 × 20		Species?		Number of Dominant Species 4
1. Not Applicable				Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2				
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 1002 (A/B)
l · · · · · · · · · · · · · · · · · · ·				
6	<del> </del>			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	Ø	= Total Co	VAT	OBL species x 1 =
- 10 v2 - 10 v	-	1014100	701	l control of the cont
Sapling/Shrub Stratum (Plot size: \\ \times \times 20 \\ \times \)	_		1	FACW species x 2 =
1. Salix purpurea	<u> 20</u>	<u>Y</u>	FACU	FAC species x 3 =
1 .				FACU species x 4 =
2	<del></del> .	*****		UPL species x 5 =
3				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6		***************************************	<del></del>	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	20	= Total Co	vor	2 - Dominance Test is >50%
<b>~</b>		- Total Co	vei.	3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size: S × 5 )		W		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Juneur effusus	27	Y	OBL	data in Remarks or on a separate sheet)
2. Onodea Sensibilis	5	N	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
•	2 %	<del>- 10</del>		
3. Ranunculus acris	20		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Symphystrichum puniceum	10	M	OBL	be present, unless disturbed or problematic.
5. Solidago nugosa	10	N	FAC	Definitions of Vegetation Strata:
			<del></del>	
6. Carex Plava	28	1	<u>OBL</u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
				Sapling/shrub – Woody plants less than 3 in. DBH
8				and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				size, and woody plants less than 3.28 it tall.
11			<del></del>	Woody vines - All woody vines greater than 3.28 ft in
12				height.
	100	= Total Co	ver	
Woody Vine Stratum (Plot size: 10 x 20 )		2 2		·
				·
1. Not Applicable	·			
2				Hydrophytic
•				Vegetation
·				700 / 100
4				
	_Ø	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			<u></u>
	•		^	_
Vegetation plot sizes were	adias	1 10	Hit wi	thin the bundader of the
	aciniza	<i>EU</i> 10	, . , V V I	The sourgaries of the
Wetland,	× .			

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the in	ndicator o	or confirm	the absence	of Indicators.)	
Depth	Matrix		Redo	x Features	l		•	•	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<u>o''6"</u>	10912418	<u>පර</u>	iogr416	10	<u> </u>	<del>_</del>	SIL		
	-		Syr 4/6	_5_	<u> </u>	<u>PL</u>			
6-12"	2.5 YR 4/6	<u>95</u>	104R4/6	5_	<u> </u>	_M_	SiL		
,							-		
		***************************************				<del></del>			
<del></del>				<del></del>			·····		
							•		
¹Type: C=Co	ncentration, D=Depi	etion, RM	Reduced Matrix, MS	======================================	Sand Gra	ins.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:							for Problematic Hydric Soils³:	
Histosol	• •		Polyvalue Belov		(S8) ( <b>LRR</b>	R,		luck (A10) (LRR K, L, MLRA 149B)	
Histic Ep	ipedon (A2)		MLRA 149B) Thin Dark Surfa		RR R MI	RA 149R)		Prairie Redox (A16) (LRR K, L, R) lucky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Loamy Mucky N					urface (S7) (LRR K, L, M)	
	Layers (A5)		Loamy Gleyed I					ue Below Surface (S8) (LRR K, L)	
	Below Dark Surface rk Surface (A12)	(A11)	Depleted Matrix X Redox Dark Suit					ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R)	
	ucky Mineral (S1)	•	Depleted Dark S		7)			ont Floodplain Soils (F19) (MLRA 149B)	
Sandy G	leyed Matrix (S4)		Redox Depress		•		Mesic 8	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	edox (S5)						Red Parent Material (F21)		
	Matrix (S6) face (S7) ( <b>LRR R, M</b>	LRA 149E	3)					hallow Dark Surface (TF12) Explain in Remarks)	
		*						·	
	hydrophytic vegetati ayer (if observed):	on and we	tland hydrology mus	t be prese	nt, unless	disturbed	or problematic		
	W/A							·	
Depth (inc		···					Hydric Soil	Present? Yes X No No	
Remarks:			· · · · · · · · · · · · · · · · · · ·						
541	is build	0.09	his rela		اسلام	·	ا اساسا		
23(1	13 Myone	Qno	has redo	· conc	eatras	1002 I	nthe it	op layer.	
			•						
			Ÿ				•		
,									
					÷				

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: Chautauqua County sampling Date: 仮行作 Project/Site: Ball Hill Wind Project \_\_\_\_ Sampling Point: DP- 738 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): Ben Vits and Micole Dutcher Section, Township, Range: Town of Hancier Landform (hillslope, terrace, etc.): Acate Local relief (concave, convex, none): Concave Slope (%): 0-5% Subregion (LRR or MLRA): LRR-R Lat: 42.4545949 Long: -79.1475368 Datum: NAD 83 Soil Map Unit Name: Fremont Silt low Oto3 % Slopes Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No\_ Are Vegetation 10 , Soil 10 , or Hydrology 11 significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation No Soil No or Hydrology No naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes X No 633 within a Wetland? Hydric Soil Present? If yes, optional Wetland Site ID: Wetland Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) PSS Wetland in law spot of scrub Shrub field. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) X Drainage Patterns (B10) Water-Stained Leaves (B9) Surface Water (A1) Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) Crayfish Burrows (C8) \_\_\_ Hydrogen Sulfide Odor (C1) Water Marks (B1) \_\_\_ Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) \_\_\_ Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Shallow Aquitard (D3) Iron Deposits (B5) ★ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes X No \_\_\_\_ No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Microtopagraphic releif due to small hummocks throughout. Oraning patterns throughout, low channels that any water cust to west of westland.

				Samping Folia.
Tree Stratum (Plot size: 301)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Not Applicable				That Are OBL, FACW, or FAC:(A)
2				
				Total Number of Dominant Species Across All Strate:  (B)
3		<del></del>		Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 1007. (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	Ø	= Total Cov	or	OBL species x1 =
1 A		- Total Cov	91	
Sapling/Shrub Stratum (Plot size: 15 /				FACW species x 2 =
1. Cornus racemosa	20	Υ	FAC	FAC species x3 =
2. Cornus amonum	30	Y	FIACW	FACU species x 4 =
		<del>!</del>	MEW	UPL species x 5 =
3				
4			100	Column Totals: (A) (B)
	<del></del>			Prevalence Index = B/A =
5			<del></del>	
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
***************************************	50		•	2 - Dominance Test is >50%
	50	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: S1)				
1. Phalaris arundinacea	60	Υ	FACW	4 - Morphological Adaptations¹ (Provide supporting
^	2.0	V		data in Remarks or on a separate sheet)
2. Cornus amonum		<u> </u>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Solidage nigosa	10	N	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Fragaria Virginiana	2	N	UPL	be present, unless disturbed or problematic.
4. Tracaria VII a Intaria				
5. Symphy otnichum prenanthoides	5	<u>N</u>	FAC	Definitions of Vegetation Strata:
6. Ranuralus acris	3	N	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			<del></del>	at breast height (DBH), regardless of height.
7			<del></del>	
8				Sapling/shrub - Woody plants less than 3 in. DBH
9			1	and greater than or equal to 3.28 ft (1 m) tall.
	······			Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11	-			
12.				Woody vines – All woody vines greater than 3.28 ft in
	100			height.
	<del></del> :	= Total Cove	er ·	
Woody Vine Stratum (Plot size: 30')		٠.,		
1. Not Applicable				
				Hydrophytic
2	· · · · · · · · · · · · · · · · · · ·			Vegetation
3				Present? Yes No No
4.				· ·
	N			
		= Total Cove	<b>Э</b> Г	
Remarks: (Include photo numbers here or on a separate sh	neet.)			
				•
				1

Depth	cription: (Describe Matrix	to the dep	th needed to docum	nent the i x Feature		or contirm	ı tue absence d	or indicators.)				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks				
0-6	2.54 3/2	100					Si					
6-16	104R 3/2	85	7.5YR416	10	$\overline{c}$	M	SiL					
- 10			2.5Y 5/4	5	$\overline{c}$	M						
			2.01 17			101						
<del></del>				<del></del>								
		<del></del>										
		<del></del>										
		-										
		<del></del>				·						
		<del></del>										
¹Type: C=C	oncentration D=De	nletion PM	=Reduced Matrix, MS	S=Macker	Sand Gr	aine	<sup>2</sup> I ocation:	PL=Pore Lining, M=Matrix.				
	Indicators:	DICTION, TXIV	- TOUGOCO Maura, MC	J Wasket	a Guna Gn	unio.		for Problematic Hydric Solls <sup>3</sup> :				
Histoso	i (A1)		Polyvalue Belov	w Surface	(S8) ( <b>LRI</b>	RR,		uck (A10) (LRR K, L, MLRA 149B)				
	pipedon (A2)		MLRA 149B)	,				Prairie Redox (A16) (LRR K, L, R)				
	listic (A3)		Thin Dark Surfa				, —	lucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L, M)				
	en Sulfide (A4) d Layers (A5)		Loamy Gleyed			., <b>L</b> )		Polyvalue Below Surface (S8) (LRR K, L)				
	ed Below Dark Surface	ce (A11)	Depleted Matrix		,		Thin Da	ark Surface (S9) (LRR K, L)				
	ark Surface (A12)		X Redox Dark Su					anganese Masses (F12) (LRR K, L, R)				
	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)				
	Redox (S5)		Nedox Depress	10113 (1 0)				arent Material (F21)				
Stripped	d Matrix (S6)							hallow Dark Surface (TF12)				
Dark St	urface (S7) (LRR R,	MLRA 149	B) _				Other (	Explain in Remarks)				
3Indicators o	of hydrophytic vegeta	ation and w	etland hydrology mus	st be pres	ent. unles	s disturbed	d or problematic	<b>.</b>				
	Layer (if observed)						1					
Type:	N/A							<b>.</b>				
Depth (in	nches):						Hydric Soil	Present? Yes X No No				
Remarks:												
12	2Huct Com	Latins	s in the mat	, ~	. \.		و با د و ا	inches of				
				wx +	mg &	ener	1 4-10	incres of				
Su	il profice of	Fa d	lard Matrix				,					
	,	1 **	3011.190									
			•									
,												
	٠											
		ī			,							

	FORM - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 6/7/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 151
Investigatorial Ben With and Nicole Duth	Section, Township, Range: Town of Hanover
Landform (hillstope, terrace, etc.): hillstope Lo	ocal relief (concave, convex, none): CONVEX Slope (%): 170%
Subregion (LRR or MLRA): LRR-R Lat: 42.45	13687 Long:79.1476433 Datum: NAD 83
Soil Man Unit Name: Francist Silt Locus (	2+30/0 Slopes NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes X No (If no, explain in Remarks.)
Are Vegetation No , Soil No , or Hydrology No significantly	
Are Vegetation No, Soil No or Hydrology No naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes No X  Wetland Hydrology Present?  Yes No X	is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	
Upland data point for wetland AU	
spian dala point for socials	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Water-Staine	** mt : 15 (D40)
High Water Table (A2) Aquatic Faun	Total Table (CO)
Saturation (A3) Marl Deposite	ifide Odor (C1) Crayfish Burrows (C8)
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Algal Mat 0 Clust (B4) Thin Muck St	at 11 A (50)
	in in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes NoX Depth (inch	
Water Table Present? Yes NoX Depth (inch	
Saturation Present? Yes No X Depth (inch (includes capillary fringe)	es).
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	
No wetland hydralogy indicators	- observed,
7 07	
	en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
, · · · · · · · · · · · · · · · · · · ·	

	A 1 1 1.		4 12 4	Camping Com
Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Fraxious americana		Y		Number of Dominant Species
			FACU	That Are OBL, FACW, or FAC:(A)
2	<del></del>			Total Number of Dominant
3				Total Number of Dominant Species Across All Strata:  (B)
4				
	<del></del>		<del></del>	Percent of Dominant Species That Are OBL, FACW, or FAC: 33.337.(A/B)
5				That Ale OBL, PACW, or PAC. (AVB)
6				Prevalence Index worksheet:
7				· · · · · · · · · · · · · · · · · · ·
	30			Total % Cover of: Multiply by:
1= 10	20_	= Total Cov	ег	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'R)	_			FACW species x 2 =
1. Cornus racemosa	<b>3</b> 0	Υ	FAC	FAC species x 3 =
2. Rosa multiflora	ìS	Y	FACU	FACU species x 4 =
2. 1036 11011111070				UPL species x 5 =
3. Carpus amomum		<u>N</u>	FACUS	Column Totals: (A) (B)
4				Column Totals. (A)
E		***************************************		Prevalence Index = B/A =
5			<del></del>	
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cove		2 - Dominance Test is >50%
æ10	<del></del>	= Total Cove	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5'R)	_	17		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Solidago Canadensis	<u> 30</u>	Y	FACU	data in Remarks or on a separate sheet)
2. Cornus vacemora	20	Y	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	5			Transmission (CAPIANT)
3. Toxicodendron radicans		<u> </u>	FAC	Indicators of hydric soil and wetland hydrology must
4. Rubus pensilvanicus		<u> </u>	FACU	be present, unless disturbed or problematic.
5. Rosa multifloa	15	N	FACU	Definitions of Vegetation Strata:
		<u> </u>	UPL	
6. Fragaria virginiana				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Ranunculus acris	_5_	<u>N</u>	FAC	at breast height (DBH), regardless of height.
8			11.41.7	Sapling/shrub - Woody plants less than 3 in. DBH
A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				and greater than or equal to 3.28 ft (1 m) tall.
			-	Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				
12.				Woody vines - All woody vines greater than 3.28 ft in height.
	100	T	************	l-neight.
	100	= Total Cove	er -	
Woody Vine Stratum (Plot size: 301 ( )		٠.	4	
1. Not Applicable				
2.				Hydrophytic
-		-		Vegetation
3				Present? Yes No
4				·
·	0	≕ Total Cove	ar	
Remarks: (Include photo numbers here or on a separate s		10101 0010	/I	
remains. (medde photo flutinosis fiele of on a separate s	sileet.)			
				·

Profile Desc	ription: (Describe t	o the dep	th needed to docum	ent the i	ndicator	or confirm	the absence of indicators.)	
Depth	Matrix			CFeatures	Type <sup>1</sup>	_Loc²	Texture Rem	arke
(inches)	Color (moist) 107R 3/3	<u>%</u>	Color (moist)	%	Type	LOC	SiL Nein	arko
0-4		100						
4-14	104R 3/2	100					<u>SiL</u>	
14-20	2.54 96	85	2.5Y312	10	$\mathcal{D}$	M	SL	
			104R 4/6	5	$\overline{C}$	M		
				<del></del>				
	· · · · · · · · · · · · · · · · · · ·							
								1
						<del></del>		
,				***************************************				
								,
¹Type: C=C	oncentration, D=Depl	etion PM:		=Masked	Sand Gr	ains	<sup>2</sup> Location: PL=Pore Lining, N	/=Matrix.
Hydric Soil		etion, ixivi	-iteudosa matrix, me	3-Masked	Odila Ol	unio.	Indicators for Problematic H	ydric Soils³:
Histosol			Polyvalue Belov	v Surface	(S8) (LRI	R,	2 cm Muck (A10) (LRR K,	L, MLRA 149B)
	oipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16)	
	stic (A3)		Thin Dark Surfa				) 5 cm Mucky Peat or Peat Dark Surface (S7) (LRR K	
	en Sulfide (A4) d Layers (A5)		Loamy Mucky N Loamy Gleyed I			., L)	Polyvalue Below Surface (	
	d Below Dark Surface	e (A11)	Depleted Matrix		,		Thin Dark Surface (S9) (L	
	ark Surface (A12)	` ,	Redox Dark Su	rface (F6)			Iron-Manganese Masses (	
	lucky Mineral (S1)		Depleted Dark		7)		Piedmont Floodplain Soils	
	Bleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLR Red Parent Material (F21)	
	Redox (S5) Matrix (S6)						Very Shallow Dark Surfac	
	rface (S7) (LRR R, N	ILRA 1498	3)				Other (Explain in Remarks	
			,					
	f hydrophytic vegetat		etland hydrology mus	t be pres	ent, unles	s disturbed	d or problematic.	
	Layer (if observed): N/A							
Type:							Hydric Soil Present? Yes _	No <u>X</u>
Depth (in	cnes):						Hydrio con i rocciti.	
Remarks:				•			•	
			•					
			,					
,								
	•							
	4							

WEILAND DETERMINATION DATA FOR	
Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 6716
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP-740
Investigator(s): Ben Virty and Nicole Duther Section	
	lief (concave, convex, none): Concave Slope (%): 15-15
Subregion (LRR or MLRA): LRR-R Lat: 42.45561	
Soil Map Unit Name: Fremont 5: 1+ lours 3 to 8 %	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation No., Soil No., or Hydrology No significantly distur	
Are Vegetation No, Soil No, or Hydrology No naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 634
Remarks: (Explain alternative procedures here or in a separate report.)	
PFO portun of PFO/PEM wette	ns A634.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13)	• • • • • • • • • • • • • • • • • • • •
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Oc	
	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
<u> </u>	on in Tilled Soils (C6) Seomorphic Position (D2) (C7) Shallow Aguitard (D3)
Iron Deposits (B5) Thin Muck Surface ( Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Joseph Jo	
Remarks:	
- t	
- Sept.	and the second s
N.	

VEGETATION - Ose scientific flames of plants	·			Oamping Forti
2	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30' 2)		Species?		Number of Deminent Species
1. Fraxinus Pennsylvanica	80	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Fagus grandifolia	15	V	FACU	Illat Ale ODE, I AOW, OF AO.
2. ragui granaitolia			17100	Total Number of Dominant
3				Species Across All Strata: (B)
4			·	Percent of Dominant Species 807.
5				That Are OBL, FACW, or FAC:O7 (A/B)
· · ·	•			
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		
	-13	= rotar Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 / 2 )				FACW species x 2 =
1. Rosa multiflora	10	N	FACU	FAC species x 3 =
		- <del>1</del> \(\frac{1}{\text{Y}}\)		FACU species x 4 =
2. Fravious pennsylvanica	70	Υ	FACW	l · · · · · · · · · · · · · · · · · · ·
3. Amelanchier Canadensis	20	· Y	FAC	UPL species x 5 =
3. Mirelancher Canadensia			11.0	Column Totals: (A) (B)
4				
				Prevalence Index = B/A =
5		-		<u> </u>
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	1 4			2 - Dominance Test is >50%
	100	= Total Cov	er	ı <del>—</del>
Herb Stratum (Plot size: 5 / R )				3 - Prevalence Index is ≤3.0 <sup>1</sup>
l	60	V		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Impatient Capensis	<u> </u>		FACW	data in Remarks or on a separate sheet)
2. Persicana Virginiana	10	N	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		<del> </del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4			·	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
				Sapling/shrub Woody plants less than 3 in. DBH
8				and greater than or equal to 3.28 ft (1 m) tall.
9				
10.				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12.				height.
1-1	70			noight.
		= Total Cov	er	
Woody Vine Stratum (Plot size: <u> </u>				·
1. Nut Applicable				•
1. IVOT PODITAGO				Hydrophytic
2				Managadian
3				Present? Yes X No
<b>5.</b>				
4,				
	Ø	= Total Cov	er	
Remarks: (Include photo numbers here or on a separate	sheet )			
Nemans. (include prioto numbers here of on a separate	511001.7			, in the second
				•
				·
•				
•				

Profile Desc	ription: (Describe t	o the dep	th needed to docum	ent the i	ndicator	or confirm	the absence of Indi	cators.)
Depth	Matrix (Table 1)			Features		2	<b>** (</b>	Demondo
(inches) () 10	Color (moist) 2,54 3/1	90	7.5 YR 3/4	<u></u>	Type <sup>1</sup>	Loc² M	Texture	Remarks
10-18	2.57 4/3	80	2.5431.	15			CL CL	
10 9 0	2.31 10	<u> </u>	1000 51	<del>-  </del>	<u>D</u>	<u></u>	<u> </u>	
		<del></del>	1048 5/6		<u></u>	<u> </u>		
				<del></del>				
					-			
			<del></del>					
								was a supply of the supply of
		etion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ins.		Pore Lining, M=Matrix.
Hydric Soil I			Dalamina Balan	. Cumfana	(00) (1 DE			oblematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep	pipedon (A2)		Polyvalue Below MLRA 149B)	Suriace	(30) (LK	KK,		10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surface				5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		Loamy Mucky M Loamy Gleyed N			, <b>L</b> )		(S7) ( <b>LRR K, L, M</b> ) ow Surface (S8) ( <b>LRR K, L</b> )
	l Below Dark Surface	(A11)	Depleted Matrix		,		· · ·	face (S9) (LRR K, L)
	ırk Surface (A12)		X Redox Dark Sur	face (F6)				ese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1) leyed Matrix (S4)	•	Depleted Dark S Redox Depression		7)			odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B)
	edox (S5)		Redox Depressi	0113 (1 0)			Red Parent M	
	Matrix (S6)							Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, M	LRA 1491	3)				Other (Explain	n in Remarks)
<sup>3</sup> Indicators of	hydrophytic vegetati	on and we	etland hydrology must	be prese	nt, unless	disturbed	or problematic.	
Restrictive L	ayer (if observed):		· ·					
Type:	u A							10 Yes V
Depth (inc	ches):						Hydric Soil Prese	nt? Yes X No
Remarks:								•
thyd	inc soil bear	iuse .	it has redux	int	he m	order al	· dark en	
							SE CENT 28/11	
								•
:								
,								
	ž.							
								i

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: Chautauqua County Project/Site: Ball Hill Wind Project Sampling Point: DP- 741 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): Ben Virty and Nicese Outher Section, Township, Range: Town of Harrover Landform (hillslope, terrace, etc.): hillstope Local relief (concave, convex, none): Convex Slope (%): 3-102 Subregion (LRR or MLRA): LRR-R Lat: 42.454890 Long: -79.145'204 Datum: NAD 83 Soil Map Unit Name: Fremont 5:1+ Loam, 3 to 8 % Slopes NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation No., Soil No., or Hydrology No. significantly disturbed? Are "Normal Circumstances" present? Yes X No\_\_\_\_\_\_No\_\_\_\_ Are Vegetation <u>N</u>. Soil <u>N</u>. or Hydrology <u>N</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes X No Yes \_\_\_\_\_ No X within a Wetland? Yes \_\_\_\_\_ No X Hydric Soil Present? If yes, optional Wetland Site ID: Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) Upkand sample point for PEM/PFO wetlood A634. Located on slight hillstype with meture secondary growth forest with little understony growth. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) \_\_\_ Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_ Saturation (A3) \_\_\_ Marl Deposits (B15) \_\_\_ Crayfish Burrows (C8) \_\_\_ Water Marks (B1) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_\_ Sediment Deposits (B2) \_\_\_ Stunted or Stressed Plants (D1) \_\_\_ Drift Deposits (B3) \_\_\_ Presence of Reduced Iron (C4) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) \_\_\_ Geomorphic Position (D2) \_\_\_ Algal Mat or Crust (B4) \_\_\_ Shallow Aquitard (D3) \_\_\_ Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) \_\_\_ Microtopographic Relief (D4) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_ Other (Explain in Remarks) FAC-Neutral Test (D5) \_ Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No X Depth (inches): Surface Water Present? Yes \_\_\_\_ No \_X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_ No X\_\_ Yes \_\_\_\_ No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No bydae indicators observed. Remarks:

Tree Stratum (Plot size: 30/2)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Frangula alnus		V	FAC	Number of Dominant Species That Are OBL FACW or FAC:  (A)
2 Malus prinifolia	15	<u> </u>	UPL	That Are OBL, FACW, or FAC: (A)
		<del></del>		Total Number of Dominant
3. Fraxinus americana	36		FACU	Species Across All Strata: (B)
4				Percent of Dominant Species That Are ORL FACW or FAC
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
		7.1.10		Total % Cover of: Multiply by:
1510	100	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 1512)	•	N.	٠	FACW species x 2 =
1. Frangula alnus	10	<u> </u>	FAC	FAC species x 3 =
2		-		FACU species x4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
				Prevalence Index = B/A =
5				
6,		<del></del>		Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
	10	= Total Cov	er	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 / 2 )				3 - Prevalence Index is ≤3.0¹
1. Frazinos americana	10	Υ	FIACU	4 - Morphological Adaptations¹ (Provide supporting
Penne de Maria		<del>-</del>	FAC	data in Remarks or on a separate sheet)
2. Persicana Virginiana				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Rubur pensilvanicus		<u>N</u>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Fraçaria Virginiana	<u> </u>	<u>N</u>	UPL	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			<del> </del>	at breast height (DBH), regardless of height.
7				
8		•		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		<del></del>		
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11,				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	40	= Total Cove	~	norgit.
Woody Vine Stratum (Plot size: 30 R)		- TOTAL COVE	<b>3</b> 1	
1. Not Applicable	<del></del>		<del></del>	1
2				Hydrophytic Vegetation
3				Present? Yes No No
4.				
	<u>(Z)</u>	= Total Cove		·
Remarks: (Include photo numbers here or on a separate si		- 10tal 00vt	<del></del>	
Translate (mendade priore manipole note of on a departate of				

Profile Desc	ription: (Describe to	the dept	h needed to docur	nent the i	ndicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix			x Features		12	Tasdersa		Remarks	
(inches)	Color (moist)	<u>%</u>	Color (moist)		<u> Type</u>	LOC	<u>Texture</u> Si L		Remarks	
	104R 416	1002								
2-17		<u> 1০০</u> % -					SiL			
17-20	104R 4/4	90	10YR4/2	10	0	<u>M</u>	<u>SiL</u>			
	<del></del>									
					<del></del>					
					<del></del>					
					********					
										<u></u>
¹Type: C≔Co	oncentration, D=Deple	tion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.			Lining, M=Matr matic Hydric S	
Histosol			Polyvalue Belov	w Surface	(S8) (LRF	R.			(LRR K, L, MLI	l
Histic Ep	oipedon (A2)	-	MLRA 149B)	)			Coast	Prairie Red	ox (A16) (LRR	K, L, R)
	stic (A3)		Thin Dark Surfa					•	or Peat (S3) (L ) (LRR K, L, M)	· I
	n Sulfide (A4) I Layers (A5)	-	Loamy Mucky N Loamy Gleyed			, L)			Surface (S8) (Li	
Depleted	Below Dark Surface	(A11)	Depleted Matrix	(F3)					(S9) (LRR K,	-
	ark Surface (A12) lucky Mineral (S1)	-	Redox Dark Su Depleted Dark 3						Masses (F12) ( <b>I</b> ain Soils (F19)	
	Bleyed Matrix (S4)		Redox Depress		•,				6) (MLRA 144A	
	ledox (S5)							arent Mate		<b>.</b> \
	Matrix (S6) rface (S7) ( <b>LRR R, M</b> l	LRA 149B	)					nallow Dar (Explain in	k Surface (TF12 Remarks)	2)
									•	
	f hydrophytic vegetationayer (if observed):	on and wet	land hydrology mus	st be prese	ent, unless	disturbed	or problematio	<del>.</del>		
Type:	MA									,
Depth (inc	ches):						Hydric Soil	Present?	Yes	No
Remarks:							J			
								•		
			,							
				÷						
,										

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Sampling Date: 0 7 10 City/County: Chautauqua County Project/Site: Ball Hill Wind Project Sampling Point: DP-742 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): Ben Vict and Micon Outher Section, Township, Range: Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 0.3% Subregion (LRR or MLRA): LRR-R Lat: 47.455167 Long: —79.145220 Datum: NAD 83 Soil Map Unit Name: Fremont Silt Loam 3788905 lepon Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No\_\_\_\_ Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are Vegetation No., Soil No., or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? If yes, optional Wetland Site ID: Wetland Ale 34 Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) PER portion of PEM/PFO netland A 634. PEM portion in depression and snowmobile trail. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) X Surface Water (A1) Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) X High Water Table (A2) Dry-Season Water Table (C2) \_\_ Mari Deposits (B15) X Saturation (A3) Crayfish Burrows (C8) \_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) \_\_ Thin Muck Surface (C7) Iron Deposits (B5) Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) \_ Inundation Visible on Aerial Imagery (B7) ★ FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes X No \_\_\_\_ Depth (inches): \" Surface Water Present? Yes X No \_\_\_\_ Depth (inches): 10" Water Table Present? Wetland Hydrology Present? Yes 🔀 No \_ Yes X No Depth (inches): O" Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VECETATION - Ose scientific flames of plants	).			Sampi	ing Point: 21	
Tree Stratum (Plot size:S' x とい')	Absolute % Cover	Dominan Species?	t Indicator Status	Dominance Test worksheet:		
1. Not Applicable				Number of Dominant Species That Are OBL, FACW, or FAC:	2	_ (A)
3			-	Total Number of Dominant Species Across All Strata:	2	_ (B)
					····	. (5)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	_ (A/B)
6	<del></del>			Prevalence Index worksheet:	····	
7				Total % Cover of:	Multiply by:	
	<u> </u>	= Total Co	ver	OBL species x		
Sapling/Shrub Stratum (Plot size: 5' x 1 5')				FACW species x		
1. Not Applicable	,	•		FAC species x	3 =	
			,	FACU species x	4 =	
3	•			UPL species x	5 =	<u> </u>
	•			Column Totals: (A		
5		······································		Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica	tore:	· · · · · · · · · · · · · · · · · · ·
7				1 - Rapid Test for Hydrophy		
	<u>~</u>		-	2 - Dominance Test is >50%		
C1vc1	<u>Ø</u> :	= Total Cov	/er	3 - Prevalence Index is ≤3.0		
Herb Stratum (Plot size: 5'x 5')	سم	V		4 - Morphological Adaptation	ns <sup>1</sup> (Provide sur	porting
1. Glyceria melicaria	50	- 1	OBL	data in Remarks or on a	separate sheet)	)
2. Impatient capensis	20	Y .	FIACW	Problematic Hydrophytic Ve	getation <sup>1</sup> (Expla	iin)
3. Symphyotrichim prenanthoides		N	FAC	<sup>1</sup> Indicators of hydric soil and wet		must
4. Muhlenbergia Schreberi		N	FAC	be present, unless disturbed or p	problematic.	
4. Muhlenbergia Schreberi 5. Fraxious pennsylvanica	<u> </u>	<u>N</u>	PACW	Definitions of Vegetation Strat	a:	
6				Tree - Woody plants 3 in. (7.6 ci	m) or more in di	ameter
7	·		· · · · · · · · · · · · · · · · · · ·	at breast height (DBH), regardles	ss of height.	
8				Sapling/shrub - Woody plants i	ess than 3 in. D	вн
9				and greater than or equal to 3.28	3 ft (1 m) tall.	
10.			<del></del>	Herb - All herbaceous (non-woody		ss of
11.	<del></del> .			size, and woody plants less than 3.2	8 ft tall.	
12.				Woody vines - All woody vines gre	eater than 3.28 ft	in
14	05		<u> </u>	height.		٠
Woody Vine Stratum (Plot size: 5' x 20')	92 =	≃ Total Cov	er ·		. •	
				*		
1. Not Applicable		·	<del></del>	Hydrophytic		
2				Variation		
3				Present? Yes X	No	
4		· · · · · · · · · · · · · · · · · · ·				
·		= Total Cov	er			
Remarks: (Include photo numbers here or on a separate s	heet.)				***************************************	***************************************
Vegetation plot Sizes were	adjust	. J. to	fit mi	the the burden	CAU	
hetland,	/ 0.510	20 10	,	The Disordery of	- The	

Profile Desc	ription: (Describe t	o the dept	th needed to docum	ent the i	ndicator	or confirm	the absence of Ind	icators.)				
Depth	Matrix (			Features	<u>s</u>	_Loc²	Texture	Remarks				
(inches)	2. SY 2.5/	1002	Color (moist)	%	Type <sup>1</sup>	LOC	Si L	Kemana				
0-6	. 1		- 31									
6-14	2.5Y 4/2	<u>50%</u>	2.57 3/1	40	<u>D</u>	<u>M</u>	<u> </u>					
			7.5YR4/6	10	<u> </u>	<u>64</u>						
						<del></del>						
-									:			
									,			
		-			·		21	Daniel John Mald				
<sup>1</sup> Type: C=Ce Hydric Soil	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	Indicators for Pi	Pore Lining, M=Ma roblematic Hydrid	Soils <sup>3</sup> :			
Histosol			Polyvalue Below	/ Surface	(S8) (LR	R R.		A10) (LRR K, L, M				
	oipedon (A2)		MLRA 149B)		(/(	<b>-</b> ,	Coast Prairie	Redox (A16) (LR	R K, L, R)			
	stic (A3)		Thin Dark Surfa					Peat or Peat (S3)				
	en Sulfide (A4) d Layers (A5)		Loamy Mucky M Loamy Gleyed N			(, L)		Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)				
	d Below Dark Surface	e (A11)	Depleted Matrix		-)		Thin Dark S	urface (S9) (LRR I	(, L)			
Thick Da	ark Surface (A12)	• •	Redox Dark Sur	face (F6)				ese Masses (F12)				
	Mucky Mineral (S1)		Depleted Dark S Redox Depress					oodplain Soils (F19 c (TA6) ( <b>MLRA 1</b> 4				
	Bleyed Matrix (S4) Redox (S5)		Redux Debiess:	ions (Fo)			Red Parent	Material (F21)				
	Matrix (S6)							v Dark Surface (Ti	=12)			
Dark Su	rface (S7) (LRR R, N	ILRA 149E	3)				Other (Expla	in in Remarks)				
3Indicators o	f hydrophytic vegetat	ion and we	etland hydrology mus	t be pres	ent, unles	s disturbed	or problematic.					
	Layer (if observed):											
Type:												
Depth (in	ches):	<del></del>					Hydric Soil Pres	ent? Yes X	No			
Remarks:												
			,									
,												
I												
1	4											

WETLAND DETERMINATION DATA FOR	RM – Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project City/	County: Chautauqua County Sampling Date: 0/7/16
Applicant/Ouman, Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- + 45
Section of Nizal Duties Sect	ion Township Range: Town of Hanover
Local re	elief (concave convex none): & linear concava Slope (%).
Subragion (LDD or MLDA): LRR-R Lat: 46,45656	Long: 771146 240 Datum: 101
Soil Map Unit Name: Fremant Silt Loan Oto ?	3065 km on NWI classification: Unland
Soil Map Unit Name: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ves. Y No. (If no. explain in Remarks.)
Are climatic / hydrologic conditions on the site typical for this time of year?	urbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No., Soil No., or Hydrology No. significantly distr	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID:
	13. 4011
Upland data point in the middle of trail is a low spot where we but no evidence of hydrology.	ething regetation and hydric soils are found
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
	ves (B9) Drainage Patterns (B10)
Surface Water (A1) Water-Stained Lea High Water Table (A2) Aquatic Fauna (B1	3) Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15	
Saturation (AS) Water Marks (B1) Hydrogen Sulfide (	Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosph	neres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduc	ced Iron (C4) Stunted or Stressed Plants (D1)
	ction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	(C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in F	· · · · · · · · · · · · · · · · · · ·
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	🗸
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	i .
No hydrology indicator observe	<i>10</i> 4
and the season of the season o	
	•

	Absolute	Dominant	Indicator	T
Tree Stratum (Plot size: 30' L )		Species?		Dominance Test worksheet:
1. Fraxitur américana	20	Y	FACU	Number of Dominant Species That Are OBL FACW or FAC:  3
	15	$\frac{}{}$		That Are OBL, FACW, or FAC: (A)
2. Fagus grandifolia		<u> </u>	FACU	Total Number of Dominant
3. Acer saccharum	<u>S_</u>	<u>N</u>	FALU	Species Across All Strata: (B)
4.				m
			<del></del>	Percent of Dominant Species That Are OBL, FACW, or FAC: SO?. (A/B)
3	<del></del>			(20)
6				Prevalence Index worksheet:
7	<u> </u>			Total % Cover of: Multiply by:
	40	= Total Co		-
35.10		- Total Co	vei	1// 5
Sapling/Shrub Stratum (Plot size: 15 ' 2 )		i		
1. CUMUST VACEMOSA	<u> </u>	<u>N</u>	FAC	17.0 oposios xo
2. Cornus amonun	: 30	: Y	FACW	FACU species <u>SS</u> x4 = <u>220</u>
3. Rosa multiflora	10	Ÿ	PACU	UPL species
3. KOSK MULTIFIAN			1 1100	Column Totals: 185 (A) 440 (B)
4				0.20
5				Prevalence Index = B/A = 2,38
6				Hydrophytic Vegetation Indicators:
			•	1 - Rapid Test for Hydrophytic Vegetation
7	/1			X 2 - Dominance Test is >50%
•	45	= Total Cov	/er	<del></del>
Herb Stratum (Plot size: 51 R)	•			X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Juneur effusus	10	N	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Scirpus cyperinus	45	Y.	08L	Problematic Hydrophytic Vegetation¹ (Explain)
	<u>-                                     </u>	N	FACW	
3. Muhlen bergia Frond cora				¹Indicators of hydric soil and wetland hydrology must
4. Trifolium repens		_Ŋ_	FACU	be present, unless disturbed or problematic.
5. Schow athorizens	15	<u> </u>	OBC	Definitions of Vegetation Strata:
6. Onoclea Sensibilis	5.	N	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Ranurulus acris	<u> </u>	N	FAC	at breast height (DBH), regardless of height.
1. Nathurymus acris			<u> </u>	
8	25			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9. Fragaria virginiana	<u>    S                                </u>	N	UPL	and greater than or equal to 3.20 it (1 iii) tair.
10. Symphyotrichum prenanthoide	5 5	N	FAC	Herb - All herbaceous (non-woody) plants, regardless of
· · · · · · · · · · · · · · · · · · ·				size, and woody plants less than 3.28 ft tall.
11		<del></del>		Woody vines - All woody vines greater than 3.28 ft in
12			· <u>  </u>	height.
	100	= Total Cov	er	
Woody Vine Stratum (Plot size: 30' 2 )				
1. Not Applicable				
• •		<u> </u>		Hydrophytic
2	<del></del>			Vegetation $\checkmark$
3				Present? Yes No
4,				· ·
	- (X	T-4-1-0		
Domarko: (Ingliedo photo pumboro hara as an a accepta e		= Total Cov	<u>er</u>	
Remarks: (Include photo numbers here or on a separate s	neet.)			
				·

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the i	ndicator o	or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.543/V	90	2.57 5/6	5	C	M	SiL	
		·	7.57R4/6	5	<u>c</u>	M		
3-15	2.5Y3h	US	2.545/6	25	$\overline{c}$	M	SiL	
			7.5Y 5/8	10	C	M		
15-20	2. SY 5/2	80	7.5Y31,	15	0	m	SiL	
1-00	2. 01 10		7,54R416	<del>-13</del>	~	m		
			7				<del></del>	
	<u></u>							
·								
						. <del></del>	·····	
		<del> </del>						
		<del></del>						
							2	Di Dan Lisia a MaMatrix
Type: C=C Hydric Soil		oletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		: PL=Pore Lining, M=Matrix.  for Problematic Hydric Solls <sup>3</sup> :
Histosol			Polyvalue Belov	v Surface	(S8) (LR	RR,		Muck (A10) (LRR K, L, MLRA 149B)
1	oipedon (A2)		MLRA 149B) Thin Dark Surfa		DD D MI	DA 1/08		Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)
1	stic (A3) en Sulfide (A4)		Loamy Mucky N					Surface (S7) (LRR K, L, M)
Stratified	d Layers (A5)		Loamy Gleyed I	Matrix (F2				lue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Sur		ı			ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R)
	fucky Mineral (S1)		Depleted Dark				Piedm	ont Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) arent Material (F21)
	Redox (S5) I Matrix (S6)							Shallow Dark Surface (TF12)
	rface (S7) (LRR R,	MLRA 1498	3)				Other	(Explain in Remarks)
3Indicators o	f hydronhytic vegets	ation and we	etland hydrology mus	at be pres	ent. unles	s disturbed	l or problemation	C.
	Layer (if observed)		Alana Hydrology III					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N/A							Present? Yes X No
Depth (in	ches):						Hydric Soil	Present? Yes /\ NO
Remarks:	,	<b>^</b>		,				
Hyo	nc suls.	teund i	n low spo	of of	Shar	mobil	- trul.	Surrounced by uplens
avec	•			,			, , , , ,	) ipina
,								
		· ·						
								·

WETLAND DETERMINATION DATA FORM	
Project/Site: Ball Hill Wind Project City/Con	unty: Chautauqua County Sampling Date: 18 316
A I' Vounce, Ball Hill Wind Energy, LLC	State: NY Sampling Point: DF2 + 90
Section Nicola Dutiller Section	Township, Range: Town of Hanove/
Local relie	(concave, convex, none): CONCAVE Slope (%): 0 //
Subregion (LRR or MLRA): LRR-R Lat: 42.43815L	long: - Tol. 1206 631 Datum: 1010
Soil Map Unit Name: AShville S: 1+ Locum	NWI classification: Vpland
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	
Are Vegetation No., Soil No., or Hydrology No. significantly disturb	
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally problemate	·
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
<b>~</b>	Is the Sampled Area
Hydrophytic Vegetation Present? Yes No	within a Wetland? Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Yes No  Yes No	If yes, optional Wetland Site ID: A-635 B
Remarks: (Explain alternative procedures here or in a separate report.)	
PEM wetland in cow bull pen, along	h.u .:\ ( a)
15h Metiens in continue being mond	Doth Sider of Stream HJOT,
HVDDOLOGY	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary indicators (minimum of one is required; check all that apply)	Surface Soll Cracks (B6)
	s (B9) Drainage Patterns (B10)
Surface Water (A1) Water-Stained Leave Aquatic Fauna (B13)	Moss Trim Lines (B16)
Nari Deposits (B15)	Dry-Season Water Table (C2)
Saturation (vo) Hydrogen Sulfide Od	or (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Sediment Deposits (B2)  X Oxidized Rhizospher	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6) K Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (	C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (Inches):	
Water Table Present? Yes No _X Depth (Inches);	Wetland Hydrology Present? Yes X No
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, principle of the control of	evious inspections), if available:
Remarks:	
In a depression between two upland/hi	115 - germarphic pust Hen.
. M.	· · ·
'	
Į.	

	Absolute	Dominant Indicator	1 · · · · · · · · · · · · · · · · · · ·
Tree Stratum (Plot size: 30' R)		Species? Status	Dominance Test worksheet:
			Number of Dominant Species
1. Not Applicable			That Are OBL, FACW, or FAC: (A)
2			
3			Total Number of Dominant Species Across All Strate:  (B)
3			Species Across All Strata: (B)
4	-		Percent of Dominant Species
5			Percent of Dominant Species That Are OBL, FACW, or FAC: しゅんう? (A/B)
1			
6			Prevalence Index worksheet:
7			
	<u> </u>		<b>1</b>
1010	<u> </u>	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \S' ( )			FACW species x 2 =
1. Rosa multiflora	10	Y FACU	FAC species x 3 =
· · ·		11720	FACU species x 4 =
2			TACO speciesX4
3	•		UPL species x 5 =
1			Column Totals: (A) (B)
4			
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7	<del></del>		1 - Rapid Test for Hydrophytic Vegetation
	1/2	- T-4-10	2 - Dominance Test is >50%
-10		= Total Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ' 2 )			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Juneux effusux	10	N OBL	data in Remarks or on a separate sheet)
2. Mentha aquatica	15		
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Kanunculur acris	<u> </u>	N FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Onoclea Sensibilis	10.	N FACW	be present, unless disturbed or problematic.
	<del></del>		
5. Impatiens capensis	5	N FACW	Definitions of Vegetation Strata:
6. Acorus Calamus	30	Y OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Eupatorium perfoliatum	, 5	N FACH	at breast height (DBH), regardless of height.
1. Superiorium performan			
8. Lysimachia nummularia	20	- Y FACW	Sapling/shrub - Woody plants less than 3 in. DBH
9.		* * .	and greater than or equal to 3.28 ft (1 m) tall.
9			Herb - All herbaceous (non-woody) plants, regardless of
10	·		size, and woody plants less than 3.28 ft tall.
11			•
12.			Woody vines - All woody vines greater than 3.28 ft in
14	140		height.
	100	Total Cover	`
Woody Vine Stratum (Plot size: 30/ C)		1.1	
1. Mor Applicable	·		
2			Hydrophytic Vegetation
3			Present? Yes No
			100
4			
	<u>Q</u> .	Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		
- Constant C	0,,001,		
PEna model as Assessment	1100	attend	·
PEM wetland, no trees not	CO IN W	ETTOTIC'	
·			
			·
		*	

Profile Desc	ription: (Describe t	o the dep	oth needed to docum	nent the	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix			x Feature	<u>\$</u>	Loc²	Texture		Remarks	
(inches)	2. SY 2. S/1	<del>%</del> 95	Color (moist) 5 YR 3/4	<u></u> 5	Type <sup>1</sup>	MIPL			( Childing	
0-10					<u></u>					
10-	2.544/1	90	7,5YR416	10	<u> </u>	<u>M</u>	SIL			
			-							
	<del>- ,</del>					***************************************				
		<del></del>		<del></del>						
									<del> </del>	
		letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location	: PL=Pore	Lining, M=Mati	ix.
Hydric Soil			Date 1 D 1	0 :=	. /ON / P	n n			matic Hydric \$ (LRR K, L, ML	
Histosol	(A1) pipedon (A2)		Polyvalue Below		(28) (LK	KK,			ox (A16) (LRR	
	istic (A3)		Thin Dark Surfa		LRR R, M	LRA 149B)	5 cm M	Mucky Peat	or Peat (S3) (L	RR K, L, R)
Hydroge	en Sulfide (A4)	•	Loamy Mucky			(, L)			(LRR K, L, M)	
	d Layers (A5)	~ (414)	Loamy Gleyed Depleted Matrix		2)				Surface (S8) ( <b>L</b> (S9) ( <b>LRR K,</b>	
	d Below Dark Surface ark Surface (A12)	9 (ATT)	X Redox Dark Su		)		Iron-M	langanese N	Masses (F12) (	LRR K, L, R)
	Jucky Mineral (S1)		Depleted Dark	Surface (	F7)				ain Soils (F19)	
	Bleyed Matrix (S4)		Redox Depress	sions (F8)	١			Spodic (TA arent Mater	6) (MLRA 144	A, 145, 149B)
	Redox (S5) I Matrix (S6)						Verv S	Shallow Dar	k Surface (TF1	2)
	i Matrix (56) Irface (S7) ( <b>LRR R, N</b>	/ILRA 149	B)					(Explain in		•
								_		
	of hydrophytic vegetal  Layer (if observed):		vetland hydrology mu	st be pres	ent, unles	s disturbed	or problemati	С.		
	Layer (ii observed):									
Type: Depth (in	ches).		-				Hydric Sol	l Present?	$_{Yes}  imes$	No
Remarks:			-				<u> </u>			
11011111										
									•	
			•							
· .										
,										
			ė.							
	N.									

	FORM - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 17-116
Applicant/Owners Ball Hill Wind Energy, LLC	State: NY Sampling Point: DF-741
Box Witt and Nicke Datcher	Section Township, Range: Town of Hander
	cal relief (concave, convex, none); CONVex Slope (%); 37.
Subsection (LDD or MLDA): LRR-R Lat: 46.14.3	Col 15
Subregion (LICK of Micros). Aslas 11. St. 1 - 1 06 m.	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	oar? Vas X No. (If no. explain in Remarks.)
Are climatic / hydrologic conditions on the site typical for this time of ye	disturbed? Are "Normal Circumstances" present? Yes X No.
Are Vegetation No , Soil No , or Hydrology No significantly	
Are Vegetation No., Soll No., or Hydrology No naturally pr	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No \chi	is the Sampled Area within a Wetland? Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Yes No X	If yes, optional Wetland Site ID:
Trouble Type To an analysis to a consister to a	ort \
Remarks: (Explain alternative procedures here of in a separate rep	AC35B. Data point along edge of hillstype
Upland data point to wetland	AUSSB. Data point along edge of hillstope
In a coulbut pen	
1 200	
	·
LIVEROLOGY	
HYDROLOGY	Secondary indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply	
	- W (D40)
	- 15/ (- T-b) - (00)
Saturation (A3) Marl Deposite Water Marks (B1) Hydrogen Su	ulfide Odor (C1) Crayfish Burrows (C8)
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
1	Reduced Iron (C4) Stunted or Stressed Plants (D1)
Drift Deposits (B3) Presence of Algal Mat or Crust (B4) Recent Iron	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	urface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Expla	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (Inch	es):
Water Table Present? Yes NoX Depth (Inch	nes):
Saturation Present? Yes NoX Depth (inch	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pr	notos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring work zonat Pr	
1	
Remarks:	
N/s to A ask	
THE HACKDOOTH INGICATION OPERING	, none to be expected du to topography and
location on hillstype.	, more to be expected due to topography and
	•
	·

Tree Stratum (Plot size: 30' R )	Absolute % Cover	Dominant Indicate Species? Status	
			Number of Dominant Species
1. Not Applicable			,
2			
3	***************************************		Species Across All Strata:(B)
4			
5	***************************************		- Percent of Dominant Species 33,33 (A/B)
5	<del></del>		_
6			- Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	<u>Ø</u>	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \S' (C)			FACW species x 2 =
1. Not Applicable			FAC species x3 =
1		· ·	FACU species x4 =
2	<del></del> .		UPL species x 5 =
3			
4			Column Totals: (A) (B)
•			Prevalence Index = B/A =
5			
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ' (2 )	,		3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Photago Ignceolata	ર્રહ	V 5000	4 - Morphological Adaptations¹ (Provide supporting
	<del>-20</del>	Y FACU N FAC	
2. Ranunculus acris		1710	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Trifolium repens	<u>ي</u>	1 17ACU	
4. Taraxacum officinale	10	N FACU	be present, unless disturbed or problematic.
5. Carex Pestucacea		Y FAC	Definitions of Vegetation Strata:
6. Trifolium pratense	,	N FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7. Uaucus carota		N UPL	-   at bleast height (DBH), regardless of height.
8			Sapling/shrub - Woody plants less than 3 in. DBH
9			and greater than or equal to 3.28 ft (1 m) tall.
10			Herb - All herbaceous (non-woody) plants, regardless of
11			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
12,			_ height.
	<u>100 :</u>	= Total Cover	
Woody Vine Stratum (Plot size: 30'2)		****	
1. Not Applicable			
2	<del></del>	<del></del>	Hydrophytic
2.		<del></del>	- Vegetation
3			Present? Yes No
4			_
	<u> </u>	= Total Cover	
Remarks: (Include photo numbers here or on a separate s	sheet.)	•	
			·
			·
·			

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirm	the absence o	of indicato	rs.)	
Depth	Matrix			x Feature	<u>s</u>	12	Texture		Remarks	
(inches)	2. SY 4/3	<del>%</del> 80	2.54 3/2	<u> ―%</u> 20	Type <sup>1</sup>	Loc²	S;L		Kemarks	
0-4			2.81 912	<u> </u>	<u>D</u> _	101				
4-15	2. SY 3/3	100					SiL			
15-20	2.5733	90	2.54 4/3	5	$\overline{D}$	<u>M</u>	SiL			
<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>			2.54 3/2	<u>5</u>	<u>C</u>	M				
<del></del>										
•			<u></u>		***************************************					
·				<u> </u>						
										·
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	IS=Maske	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore	Lining, M=Matrix.	
Hydric Soil									matic Hydric Soils <sup>3</sup> :	D)
Histosol			Polyvalue Beld		(S8) ( <b>LR</b>	R R,			LRR K, L, MLRA 149 ox (A16) (LRR K, L, R	
	oipedon (A2) istic (A3)		Thin Dark Sur	•	LRR R. M	LRA 149B)			or Peat (S3) (LRR K,	
	en Sulfide (A4)	•	Loamy Mucky				Dark S		(LRR K, L, M)	,
	d Layers (A5)	- /8445	Loamy Gleyed		2)				Surface (S8) ( <b>LRR K, I</b> (S9) ( <b>LRR K, L</b> )	-)
	d Below Dark Surfact ark Surface (A12)	e (A11)	Depleted Matr		)				Masses (F12) (LRR K,	L, R)
	Aucky Mineral (S1)		Depleted Dark				Piedmo	ont Floodpla	ain Soils (F19) ( <b>MLRA</b>	149B)
	Bleyed Matrix (S4)		Redox Depres	sions (F8)					6) (MLRA 144A, 145,	149B)
	Redox (S5) I Matrix (S6)						Red Parent Material (F21) Very Shallow Dark Surface (TF12)			
	rface (S7) (LRR R, I	/ILRA 149	B)					Explain in I		İ
						11 - 6				
	f hydrophytic vegeta Layer (if observed):		etland hydrology mu	ist be pres	ent, unies	s disturbed	or problematic		· · · · · · · · · · · · · · · · · · ·	
Type:	Layer (il observed).				•	•				
Depth (in	ches):						Hydric Soll	Present?	Yes No 2	<u> </u>
Remarks:							<u> </u>			
,										
			•							
,										
									. •	
1										
					• .					
1										

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: Chautauqua County Sampling Date:\_\_\_ Project/Site: Ball Hill Wind Project Sampling Point: DP- 751 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): Ben Uirts and Nicole Dutcher Section, Township, Range: Town of Handrer Landform (hillslope, terrace, etc.): Flood plato Local relief (concave, convex, none): Concave \_\_\_\_\_ Slope (%):\_ Lat: 42.444661 Long: -79.122147 Datum: NAD 83 Subregion (LRR or MLRA): LRR-R soil Map Unit Name: Valoi's grovelly S: It Loan, calling Are climatic / hydrologic conditions on the site typical for this time of year? Yes X \_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No\_ Are Vegetation No., Soil No., or Hydrology No. significantly disturbed? Are Vegetation <u>No</u>, Soil <u>No</u>, or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? If yes, optional Wetland Site ID: Wetland Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) PEM wetland in flow plain of Stream SA ASIZ. PEM netters in forest with no trees noted in wetland. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) X Water-Stained Leaves (B9) Drainage Patterns (B10) X Surface Water (A1) Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) X High Water Table (A2) Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) X Saturation (A3) Crayfish Burrows (C8) \_ Hydrogen Sulfide Odor (C1) Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Shallow Aquitard (D3) Thin Muck Surface (C7) Iron Deposits (B5) Microtopographic Relief (D4) Other (Explain in Remarks) Inundation Visible on Aeriai Imagery (B7) X FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes X No Depth (inches): 2" Surface Water Present? Yes X No \_\_\_\_ Depth (inches): lo'' Water Table Present? Wetland Hydrology Present? Yes X Yes X No \_\_\_\_ Depth (inches): O" Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute	Dominant Indic	ator
Tree Stratum (Plot size: VO'X 30')	% Cover	Species? Sta	tus Dominance lest worksheet:
1. Not Applicable		• •	Number of Dominant Species
2			That Are OBL, FACW, or FAC: (A)
2			1 Total Nullipel of Dolliniant
3		<del></del>	Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
4: · · · · · · · · · · · · · · · · · · ·			
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	$\bigcirc$	= Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: W' x 30')		10141 00101	FACW species x 2 =
1			
1. Not Applicable			FAC species x 3 =
2			FACU species x 4 =
3			LiPI energies v 5 =
			Column Totals: (A) (B)
4			
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
1 <b></b>			1 - Rapid Test for Hydrophytic Vegetation
			<del></del>
	<u>Ø</u>	≕ Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5' x 5')	•		3 - Prevalence Index is ≤3.0¹
1. Impatiens capensis	30	Y FA	4 - Morphological Adaptations (Provide supporting
2. Myosotis Stricta			
3. Onoclea Sensibilis	16	N FAC	Indicators of hydric soil and wetland hydrology must
4. Persicaria Virginiana	S	N FA	
5. Athyrium angustium	5		
5, AT NITUM ANGUSTIUM			
6. Glyceria mericaria	30	<u>Y 03</u>	
7. Boehmena cylindrica	10	N OB	at breast height (DBH), regardless of height.
the contract of the contract o			Sapling/shrub - Woody plants less than 3 in. DBH
8			and greater than or equal to 3.28 ft (1 m) tall.
9			
10			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			
			Woody vines - All woody vines greater than 3.28 ft in
12			height.
	92 =	Total Cover	
Woody Vine Stratum (Plot size: 16' x 30')		the time	
1. Not Applicable			
		<del></del>	Hydrophytic
۷			Vegetation
3			Present? Yes No
4	*		
		Total Cover	
Pomorko: (includo photo numbos has as as a seconda		- Total Cover	
Remarks: (Include photo numbers here or on a separate s	ineet.)		

水

Profile Desc	ription: (Describe t	o the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of Indi	ators.)	
Depth	Matrix		Redo	x Features	;				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks	
<u>0-4</u>	2.5Y 2.5/1	1007.	2 - 21			<del></del>	<u>Si</u>		
4-16	2.542.5/1	80	2.57312	15	D	<u>M</u>	SL_		
			7,57R4/U	_5_	<u> </u>	<u>M</u>			
	· · · · · · · · · · · · · · · · · · ·	<del></del>			<del>`</del>	<del></del>	· · · · · · · · · · · · · · · · · · ·		
						<u> </u>	<del></del>		
						<del></del>			
									,
		<del></del>					2		
<sup>1</sup> Type: C=Ce	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	*Location: PL=P	ore Lining, M=Mat blematic Hvdric	
Histosol			Polyvalue Belo	w Surface	(S8) (I RI	R.		10) (LRR K, L, ML	
	pipedon (A2)		MLRA 149B		(00) (211	,	Coast Prairie	Redox (A16) (LRR	K, L, R)
Black Hi	istic (A3)		Thin Dark Surfa					eat or Peat (S3) (L	The state of the s
	en Sulfide (A4)		Loamy Mucky I			, L)		(S7) ( <b>LRR K, L, M</b> ow Surface (S8) ( <b>L</b>	
	d Layers (A5) d Below Dark Surface	e (A11)	Loamy Gleyed Depleted Matrix		,			face (S9) (LRR K,	
	ark Surface (A12)	. ( ,	X Redox Dark Su					se Masses (F12) (	
	Mucky Mineral (S1)		Depleted Dark		7)	•		odplain Soils (F19) (TA6) ( <b>MLRA 144</b>	
	eleyed Matrix (S4) Redox (S5)		Redox Depress	sions (F8)			Red Parent M		7, 140, 1402)
	i Matrix (S6)						Very Shallow	Dark Surface (TF1	2)
	rface (S7) (LRR R, N	ILRA 149	B) _				Other (Explain	ı in Remarks)	
31	of hydrophytic vegetat	ion and w	atland hydrology mu	et ha nrae	ant unlac	e disturbed	or problematic.		
	Layer (if observed):		enand hydrology mu	st ne bi ea	oni, umes	3 distarbou	- Problemater		
Type:									
Depth (in	ches):						Hydric Soil Prese	nt? Yes X	No
Remarks:									
			·						
			ı						
,									
	•								
					·				
					·				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region \_ Sampling Date: 6 8 16 City/County: Chautauqua County Project/Site: Ball Hill Wind Project \_\_\_ Sampling Point: DP- 752 Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): Benvirts and Nicae Outher Section, Township, Range: Town at Hanover Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slope (%): 25% Subregion (LRR or MLRA): LRR-R Lat: 47.1(14574 Long: -79.172103 Datum: NAD 83 Soil Map Unit Name: Valois gravelly 5: 1+ locum, Rolling NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X O No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No\_\_\_\_ Are Vegetation No., Soil No., or Hydrology No. significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation <u>Mo</u>, Soil <u>No</u>, or Hydrology <u>No</u> naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. is the Sampled Area Yes X No Hydrophytic Vegetation Present? within a Wetland? Yes \_\_\_\_ No X Hydric Soil Present? If yes, optional Wetland Site ID:\_\_\_\_\_ \_ No X Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) Upland data point for wetland (PEN) A 636. Uplood on a hillstyre with ATU/ log road whin 15' and main access Bod With So'. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) Surface Water (A1) Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) High Water Table (A2) Dry-Season Water Table (C2) \_\_ Marl Deposits (B15) Saturation (A3) \_\_\_ Crayfish Burrows (C8) \_\_ Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_\_ Sediment Deposits (B2) \_\_ Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) \_ Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Shallow Aquitard (D3) Thin Muck Surface (C7) Iron Deposits (B5) \_\_\_ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No X Depth (inches): Surface Water Present? Yes \_\_\_\_ No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_ No X Yes No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

			<del></del>	
Tree Stratum (Plot size: 30' 2)	Absolute	Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species 2
1. Acec Sacchsoun	<u>4Θ</u>	Y	FACU	That Are OBL, FACW, or FAC: (A)
2. Betala alleghaniensis	40	<u>Y</u>	FAC	Total Number of Dominant
3. Tsuga Canadensis	10	N	FACU	Species Across All Strata: (B)
1				
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7				
	90			Total % Cover of: Multiply by:
1010	-70	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 1510 )				FACW species x 2 =
1. Per Saccharum	25	Y	FACU	FAC species x3 =
2. Betula alleghaniensis	25	Y	FAC	FACU species x 4 =
/			11.0	UPL species x 5 =
3		<del></del>	-	Column Totals: (A) (B)
4	<u> </u>			(-)
5				Prevalence Index = B/A =
the control of the co				Hydrophytic Vegetation Indicators:
6				
7				1 - Rapid Test for Hydrophytic Vegetation
	50	≃ Total Cove	∍r	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5'/2)				3 - Prevalence Index is ≤3.01
	S	N	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Propteris Maginalis	1 =			data in Remarks or on a separate sheet)
2. Behila alleghaniensis	12	<u>.</u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Fraxinus americana	<u> </u>	N	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Chamaepericlymenum canaden	re 3	N	FAC	be present, unless disturbed or problematic.
5. Acer Saccharum	2	N	FACU	Definitions of Vocatetion Cture.
			17760	Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7	· 			at breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH
8	<del>- i</del>			and greater than or equal to 3.28 ft (1 m) tall.
9		<del></del>	<del></del>	Truly Allhadianana (u.m. 1001)
10	<del></del>	·		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines - All woody vines greater than 3.28 ft in
	<i>3</i> 0 .	T-1-1-0		height.
3/10		Total Cove	or [	
Woody Vine Stratum (Plot size:30' (C)		• •		
1. Not Applicable	<u> </u>			
2				Hydrophytic
3				Vegetation Present? Yes No
		·············	<del></del> ]	165 NO
4				
	<u> </u>	Total Cove	or	
Remarks: (Include photo numbers here or on a separate si	neet.)			
				•
	•			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features	
Things Color motor to Color motor to Type St.	Remarks
14-20 1048 4/6 1007. SiL with gr	forci
	<u> </u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining	ng, M=Matrix.
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRI	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRI Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A10)	
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or P	eat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Loamy Gleved Matrix (F2)  Polyvalue Below Surface	
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S1 Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S1 Thin Dark Surface (S1 Thin Dark Surface (S1 Thin Dark S1	
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Mass	ses (F12) (LRR K, L, R)
Guidy Middly Millions (91)	Soils (F19) (MLRA 149B) MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (I Sandy Redox (S5) Red Parent Material (	
Stripped Matrix (S6) Very Shallow Dark Su	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Rem	narks)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type:	es No_ <u>×</u>
Depth (inches): Hydric Soil Present? Y	es No
Remarks:	
,	
,	
,	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Sampling Date: 6810 City/County: Chautauqua County Project/Site: Ball Hill Wind Project Sampling Point: DP- 755 Applicant/Owner: Ball Hill Wind Energy, LLC State: NY Town of Villeroux Investigator(s): Ben Virts and Nicon Duther Section, Township, Range: Landform (hillslope, terrace, etc.): de Are SSION Local relief (concave, convex, none): Concave Linear Slope (%): 0-37 Datum: NAD 83 Long: -79,152070 Lat: 42.419244 Subregion (LRR or MLRA); LRR-R Soll Map Unit Name: Bust S: 1+ Lour 3 to 890 5 1000 (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes X Are "Normal Circumstances" present? Yes \_\_ Are Vegetation <u>No</u>, Soll <u>No</u>, or Hydrology <u>No</u> significantly disturbed? Are Vegetation <u>No</u>, Soll <u>No</u>, or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? If yes, optional Wetland Site ID: Wetland A 635A Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) Linear PEM wetland alog madside that discharges to Oth ASOF Wetland burdes active farm field with hydric solls but no hydrology or wetlow Vegetathon. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soll Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) X Drainage Patterns (B10) \_\_\_\_ Water-Stained Leaves (B9) Surface Water (A1) \_\_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) Mari Deposits (B15) \_\_\_ Saturation (A3) \_ Crayfish Burrows (C8) Hydrogen Sulfide Odor (C1) Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) \_ Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) \_\_ Drift Deposits (B3) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Shallow Aquitard (D3) \_\_ Thin Muck Surface (C7) Iron Deposits (B5) X Microtopographic Relief (D4) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_ Other (Explain in Remarks), X FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? No X Depth (inches): Yes No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes X No\_ No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Drainge patterns run. Horangh met land liverly and discharge to detch ASO7.

Microtipographic relief du to dap off from brieft up roads

VECETATION - Ose scientific frames of plants.				Sampling Point: 21 103
Tree Stratum (Plot size: 5x5)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Not Applicable				Number of Dominant Species That Are OBL, FACW, or FAC:
2			_	
3.			\ <del>.</del>	Total Number of Dominant Species Across All Strata:  (B)
4	<del></del>			
_	<del></del>			Percent of Dominant Species That Are OBL, FACW, or FAC:
5	<del></del>		·	marate obe, raow, or rao.
6		<del></del>	<del></del>	Prevalence Index worksheet:
7	· · · · · · · · · · · · · · · · · · ·		·	Total % Cover of: Multiply by:
	<u> Ø</u>	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 5' x 5' )				FACW species x 2 =
1. Nor Applicable				FAC species x 3 =
2.			•	FACU species x 4 =
3				UPL species x 5 =
		<del></del>		Column Totals: (A) (B)
4				Prevalence Index = B/A =
5	***************************************		<del></del>	
6				Hydrophytic Vegetation Indicators:
7,	- 1			1 - Rapid Test for Hydrophytic Vegetation
	<u> </u>	= Total Cov	er	2 - Dominance Test is >50%
Herb Stratum (Plot size: S' x 5')				3 - Prevalence Index is ≤3.0¹
1. Typha angustifolia	45	<u> </u>	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Symphyotrichum prenanthoides	30	Υ	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Ranunculus acris	5	W	FAC	
4. Solidago nugosa		N	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Equisetum Datustre		<u></u>		
			FACU	Definitions of Vegetation Strata:
6. Tri Edium repens		10	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
•	<del></del>			
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9	······································			
10,				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12			4.	Woody vines — All woody vines greater than 3.28 ft in height.
	100 =	= Total Cove	er	
Woody Vine Stratum (Plot size: 5' x 5')	-	٠.		
1. Not Applicable				
2.				Hydrophytic
2	······································		************	Vegetation
		<del></del>		Present? Yes No No
4	<u></u>	T. ( ) O		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Remarks: (Include photo numbers here or on a separate si		Total Cove	90	
	•			
Vegetation plot sizes wer	ر a	justed	to 1	fit within the westend
b <sub>n</sub> \	_	,	•	
boundary.				
<b>U</b>				
•				

Profile Desc	ription: (Describe	to the dept	n needed to docum	ient the ir	idicator (	or commi	ne absence	or indicatoi	5.)
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	c Features %	Type <sup>1</sup>	l oc²	Texture		Remarks
0-3	1018 311	1007	COIOI (HIOISI)		1 And		SiL		
3-20	101R 3/1		7.514/6	<del>~~</del>	$\overline{c}$	<u>m</u>	SiL		
5 10	101K 11		4131 16	<u> </u>		<del>'''-</del> -	<u>ین</u>		
	-				<del></del>				
				······································				<del></del>	
		<del></del>		<del></del>	•				
<del></del>									
· · ·									
	***************************************			<del></del>		-			
								1	
1Type: C=C	oncentration, D=Dep	lotion PM=	Paducad Matrix MS		Sand Gr	aine	<sup>2</sup> I ocation:	PL=Pore I	ining, M=Matrix.
Hydric Soil		iedon, ravi-	reduced (Matrix, Mic	J-IMAGROA	Odila Oli	AII 101	Indicators	for Probler	natic Hydric Soils³:
Histosol	, ,		Polyvalue Belov		(S8) ( <b>LR</b> F	R,			LRR K, L, MLRA 149B)
	olpedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		RR R. MI	LRA 149B)			ox (A16) (LRR K, L, R) or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)	. '	Loamy Mucky N				Dark S	urface (S7)	(LRR K, L, M)
L	i Layers (A5)	o (A11)	Loamy Gleyed I Depleted Matrix		)				urface (S8) (LRR K, L) (S9) (LRR K, L)
	d Below Dark Surfac ark Surface (A12)		Redox Dark Su				Iron-Ma	anganese M	lasses (F12) (LRR K, L, R)
Sandy M	fucky Mineral (S1)		Depleted Dark		7)				nin Soils (F19) (MLRA 149B) 6) (MLRA 144A, 145, 149B)
	Bleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)				arent Materi	
	Matrix (S6)						Very S	hallow Dark	Surface (TF12)
Dark Su	rface (S7) ( <b>LRR R, N</b>	/ILRA 149B	9)				Other	Explain in f	Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and we	tland hydrology mus	st be prese	ent, unles	s disturbed	or problematic	), ·	
Restrictive I	Layer (if observed):								
Type:	m/A						Hydric Soil	Present?	Yes X No
Depth (inc	cnes):						Tiyano don	11000111	
r comune.									
									•
			•						
			V						
				,					
				,					
				,					

WETLAND DETERMINATION DATA FOR	M - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project City/Co	ounty: Chautauqua County Sampling Date: UK 10
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: UP- 130
section Beautiful Coal Micro Doutsher Section	in, Township, Range: Town of Villenova
1 15 (I-18-1 A-mana) ota ); AP (CACO - Local relle	ef (concave, convex, none); None Slope (%): U w
	long' 41, 13 2003 Datum.
Soll Map Unit Name: Bust: 5: 1+ Loans, 3+08%	Slonen NWI classification: Uplant
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es X No (If no, explain in Remarks.)
Are Vegetation 14. Soil 10. or Hydrology 10. significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No., Soil No., or Hydrology No. naturally problems	·
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes No X           Hydric Soil Present?         Yes No X           Wetland Hydrology Present?         Yes No X	is the Sampled Area within a Wetland? Yes No  If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Upland data point for west	land (PEM) A 635A
p	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	Surface Soll Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply)	(0.10)
Surface Water (A1) Water-Stained Leav High Water Table (A2) Aquatic Fauna (B13	
High Water Table (A2) Aquatic Fauna (B13 Aquatic Fauna (B13 Mari Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide O	dor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphe	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
	CL III A without (D2)
Iron Deposits (B5) Thin Muck Surface	1 m B - 5 (7) A)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rough Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (Inches):	
Water Table Present? Yes No X Depth (Inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
2000,000	
Desire	
Remarks: No hydrology indicators obscued.	
140 149 149 11010	
. 1 - W	24.
	•
	:

				Oamping Folia.
Tree Stratum (Plot size: 30' R )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Robina pseudoacacia		Species	FACU	Number of Dominant Species 3
		<del>- \</del>		That Are OBL, FACW, or FAC: (A)
2. Acer Saccharin	10		FACU	Total Number of Dominant
3				Species Across All Strata;(B)
4				Description of Description
E			<del></del>	Percent of Dominant Species That Are OBL, FACW, or FAC: 42.92 (A/B)
	•	<del></del>	· <del></del>	(10)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	26	= Total Cov	er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15'2)				FACW species x2 =
Malus Carrier Children	5	٧	130	
1. Malus prunifolia		<u> </u>	UPL	FAC species x3 =
2			*	FACU species x 4 =
3	•			UPL species x 5 =
				Column Totals: (A) (B)
4				<b>.</b>
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
~10		= Total Cov	er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5'R)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Kanunculus acris	15	Υ	FAC	data in Remarks or on a separate sheet)
2. Dactylis glomerata	25	Y	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			-	
3. Trifolium pratense		<u> </u>	FACU	Indicators of hydric soil and wetland hydrology must
4. Tri folium repens	5,	<u> </u>	FACU	be present, unless disturbed or problematic.
5. Plaintago lanceolata	<u>. 5.</u>	<u>N</u>	FAW	Definitions of Vegetation Strata:
A U.	10	N	UPL	Trae Woody plants 2 in /7 6 am) as mars in diameter
7. Scirpus amovirens		<del></del>	087	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
The base of the same of the sa	<del>~~~</del>	<del></del>		
8. Muhlenbergia Frondosa	15	<u>Y</u>	FACE	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 5.26 it (1 iii) tall.
10			3	Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11		<del></del>		Woody vines - All woody vines greater than 3.28 ft in
12		·		height.
	100 =	Total Cove	er	
Woody Vine Stratum (Plot size: 30' R )				
1. Not Applicable		•		
• •		<del> </del>		Hydrophytic
2		<del> </del>		Vegetation X
3				Present? Yes No No
4.		,		•
	<u>(1)</u>			
Day de de la la la la la la la la la la la la la		= Total Cove	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
				·
				•

LIONE DES	subtion: (Describe	to the dop	th needed to docum	ient me	naicator	or commi	file apsoiree		,	•	
Depth	Matrix Color (moist)	%	Color (moist)	c Feature %	<u>Type<sup>1</sup></u>	Loc²	Texture		Remarks		
(inches) O-ろ	1048 4/2	100	Ooloi (Hiolog				SL				
	104R 4/2	95	7.5 YR 5/6			WISI					
3-8	DYKTIL	95	4.3 1K 10			14180	310_	O constr	F CO-00	when ref	
<u>8</u> †								<u>KCOL</u>	1 cerys	291-1-101	00361
											<del></del>
					•						
		*									
·											
							· · · · · · · · · · · · · · · · · · ·				
								<del></del>	····		
				<del></del>		<u>,</u>					
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand G	rains.	<sup>2</sup> Location	: PL=Pore l	ining, M=M	latrix.	
Hydric Soil					. /00\ # T	n n		for Problem		c Soils : VILRA 149B)	
Histoso	l (A1) pipedon (A2)		Polyvalue Belov		(S8) (LR	KK,		Prairie Redo			
	istic (A3)		Thin Dark Surfa		LRR R, N	ILRA 149B	)5 cm i	Mucky Peat o	or Peat (S3)	(LRR K, L, F	₹)
	en Sulfide (A4)	•	Loamy Mucky N			K, L)		Surface (S7) alue Below S			
	d Layers (A5) d Below Dark Surfac	e (A11)	Loamy Gleyed   Depleted Matrix		2)			Dark Surface			
	ark Surface (A12)	,0 (, (, 1,	Redox Dark Su	rface (F6			Iron-M	langanese M	lasses (F12	() (LRR K, L,	R)
Candid	Augler Mineral (C1)		- 1 1 D								
	Mucky Mineral (S1)		Depleted Dark				Piedm	ont Floodpla	iin Soiis (Fi 3) (MLRA 1	44A. 145. 149	9B)
Sandy	Gleyed Matrix (S4)		Depleted Dark				Mesic	iont Floodpla Spodic (TA6 Parent Materi	6) (MLRA 1	44 <b>A</b> , 145, 149	9B)
Sandy Sandy Sandy Sandy Strippe	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Redox Depress				Mesic Red F Very \$	Spodic (TA6 Parent Materi Shallow Dark	6) ( <b>MLRA 1</b> al (F21) c Surface (T	44A, 145, 149	9B)
Sandy Sandy Sandy Sandy Strippe	Gleyed Matrix (S4) Redox (S5)	MLRA 149	Redox Depress				Mesic Red F Very \$	Spodic (TA6 Parent Materi	6) ( <b>MLRA 1</b> al (F21) c Surface (T	44A, 145, 149	9B)
Sandy Sandy Strippe Dark St	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I		Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in F	6) ( <b>MLRA 1</b> al (F21) c Surface (T	44A, 145, 149	9B)
Sandy ( Sandy ( Strippe ( Dark Si	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, left) of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in F	6) ( <b>MLRA 1</b> al (F21) c Surface (T	44A, 145, 149	9B)
Sandy of San	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	9B)
Sandy ( Sandy ( Strippe Dark So  Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in F	6) ( <b>MLRA 1</b> al (F21) c Surface (T	44A, 145, 149	9B)
Sandy of San	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	9B)
Sandy ( Sandy ( Strippe Dark So  Indicators (  Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	9B)
Sandy ( Sandy ( Strippe Dark So  Indicators (  Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe Dark So  Indicators (  Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	9B)
Sandy ( Sandy ( Strippe Dark So  Indicators (  Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbed	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)
Sandy ( Sandy ( Strippe  Dark So  Indicators (  Restrictive  Type:  Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic vegeta Layer (if observed)	ation and w	Redox Depress	sions (F8		ss disturbe	Mesic Red F Very S Other	Spodic (TA6 Parent Materi Shallow Dark (Explain in f	6) ( <b>MLRA 1</b> al (F21) ( Surface (T Remarks)	<b>44A, 145, 14</b> 9 F12)	98)

	WEILAND DEI			central and Northeast I	E. / - /
Proiect/Site:	Ball Hill Wind Project		_ City/County: Char	itauqua County :	Sampling Date: 6/4/16
Applicant/Os	wner: Ball Hill Wind Energy	y, LLC		State: NY	Sampling Point: DP- +58
Investigator	(a) Bea Virty (a)	dicore Outsher	Section, Township,	Range: Town of	Harover 2
l andform (b	illalana tarraga eta): de ma	~ 12K-	Local relief (concave.	convex, none): Concave	Slope (%): <u>U 3 1</u>
Subregion (	IRR OF MIRA): LRR-R	Lat: 47.47	-4929	Long: _ 49 .141 9 54	Datum: 17/15/00
Soil Map Un	nit Name: Torcenon	- Silt Long	~ 10 to 3%	Slopes NWI classifica	tion: Upland
Are climatic	/ hydrologic conditions on the s	te typical for this time of	fyear? Yes 🔀 N	lo (If no, explain in Re	marks.)
Are Vegetat	tion <u>No</u> , Soil <u>No</u> , or Hyd	rology <u>N.,</u> significar	ntly disturbed?	re "Normal Circumstances" pr	esent? Yes _^ No
Are Vegetat	tion <u>N.</u> , Soil <u>W.</u> , or Hyd	rology <u>10</u> naturally	problematic? (	If needed, explain any answers	s in Remarks.)
SUMMA	RY OF FINDINGS – Atta	ch site map showi	ng sampling poi	nt locations, transects,	important features, etc.
Hydric Soi Wetland H	Il Present?	Yes X No Yes X No Yes X No there or in a separate re			
1	To wetlend in depart ds. Drains to di		1	surrounded by upland ere wetland bounds	cultivated hey
HYDROL	OGY				
Primary In Surfa High Satur Wate Sedir Drift I Algal Iron I Spar	Hydrology Indicators: Indicators (minimum of one is reconce Water (A1) Water Table (A2) Indicators (B1) Indicators (B1) Indicators (B2) Indicators (B3) Indicators (B3) Indicators (B4) Indicators (B5) Indicators (B1) Indicators (B2) Indica	— Water-Stair — Aquatic Far — Marl Depos — Hydrogen S — Oxidized R — Presence c — Recent Iron — Thin Muck (B7) — Other (Exp	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1)	Surface Soil  Drainage Pat  Moss Trim Li  Dry-Season V  Crayfish Burn  Roots (C3) Saturation Vi  Stunted or Si  oils (C6) Geomorphic Shallow Aqui	terns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4)
Surface V Water Ta Saturatio	ble Present? Yes	No X Depth (inc. No X Depth (inc. No X Depth (inc.	ches): ches):		nt? Yes <u> </u>
Remarks Do diff	inege peterns hun L that normal circ	ground the here unskness here from the portions	now born of wettens or	the westers (looks	•

	·			
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominan Species?	t Indicator Status	Dominance Test worksheet:
1. Ulmus americana	So	V	FACW	Number of Dominant Species
2. Fraxinus pennsylvanica	25	<del>- \</del>		That Are OBL, FACW, or FAC: (A)
		<u> </u>	FACW	Total Number of Dominant Species Across All Strate: (B)
3. Rhammus Cathartica	15	N	FACU	Species Across All Strata: (B)
4. Lonicera tatarica	10	<u>N</u>	FACU	Percent of Dominant Species 757
5				That Are OBL, FACW, or FAC: (A/B)
6				
7	<del></del>			Prevalence Index worksheet:
	100	T-4-1-0	<del></del>	Total % Cover of: Multiply by:
100 100 100 100 100 100 100 100 100 100	700	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		V	٠,	FACW species x 2 =
1. Rhamnus Cathartica	15	1	FACU	FAC species x 3 =
2. Lonicera tatarica	38	<u> Y</u>	FACU	FACU species x 4 =
3. Rosa multiflora	10	N	FACU	UPL species x 5 =
4				Column Totals: (A) (B)
· · · · · · · · · · · · · · · · · · ·		*		Prevalence Index = B/A =
5	<del></del>		<del></del>	
6			· —	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	<u> </u>	= Total Cov	ver	🔀 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')	•			3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Euthamia graminifolia	40	Υ	FAC	4 - Morphological Adaptations¹ (Provide supporting
2. Ulmus americana	20	<u> </u>	FACW	data in Remarks or on a separate sheet)
		<del>- 1</del>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Fraxious penosylvanica		<u> </u>	FACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Rosa multiflora	<u> </u>	<u>N</u>	FACU	be present, unless disturbed or problematic.
5. Toxicodendron radicans	15	N	FAC	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
			•	Conting to house Manager plants large than 0 to 1001
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			· <del></del>	
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			-	
12				Woody vines – All woody vines greater than 3.28 ft in height.
	100	= Total Cov	/er	
Woody Vine Stratum (Plot size: 36')			<b>.</b>	
	16	ν	FAC	
1. Toxicad and on radicons			1110	Hydrophytic
2		<del></del>		Vegetation \/
3				Present? Yes No No
4				
	10	= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s		10141001		
FAC and FACU invasive species	5 gro	win	all lo	nd scape cover types in this
region they are and				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
region they are opertu poportur	17ths	ans ha	ve bee	I seen appuin, in wellends
as well, here in my				J 3
, .				

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix	0/	Redo:	x Features	Type <sup>1</sup>	Loc²	Texture		Remarks	
(inches)	Color (moist)	85	SYR416	<u></u> 15	Type	MPL	CL		Nemans	
					5	M	<u> </u>			
7-16	2.57 4/2	80	1048 218	10						
			107R3/1	10	$\overline{D}$	<u>M</u>	· · · · · · · · · · · · · · · · · · ·			
							·			
										<u> </u>
<del></del>										
									<del></del>	
									·····	
						<del></del> ,	2			
<sup>1</sup> Type: C=Co		letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	*Location	: PL=Pore l for Probler	_ining, M=Matrix natic Hydric Sc	cils³:
Histosol			Polyvalue Belov	w Surface	(S8) (LR	R.			LRR K, L, MLR	1
	oipedon (A2)		MLRA 149B	)			Coast l	Prairie Redo	x (A16) (LRR K	(, L, R)
	stic (A3)		Thin Dark Surfa					-	or Peat (S3) ( <b>LR</b> ( <b>LRR K, L, M</b> )	RR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky I	•		u la)			Surface (S8) (LR	R K, L)
Depleted	d Below Dark Surface	e (A11)	Depleted Matrix	(F3)					(S9) (LRR K, L	
1	ark Surface (A12) Jucky Mineral (S1)		Redox Dark Su Depleted Dark					-	lasses (F12) ( <b>L</b> i ain Soils (F19) (I	
	Bleyed Matrix (S4)		Redox Depress				Mesic	Spodic (TA	6) (MLRA 144A	
	Redox (S5)							arent Materi	al (F21) cSurface (TF12)	,
	l Matrix (S6) rface (S7) ( <b>LRR R, I</b>	AI RA 149	R)					nallow Darr (Explain in f		,
				,						
			etland hydrology mus	st be pres	ent, unles	s disturbed	or problematio	) <u>.                                    </u>		
Type:	Layer (if observed):	i								
Depth (in							Hydric Soil	Present?	Yes 🔀	No
Remarks:	,			<del></del>			1			
Hyd	he Soils be	cause	of redux c	uncentra	edras	in the	- matrix	and a	long	
livin	g pore linit	ής.	•						-	
		,							•	
			•							
,										
:	•									
		. •								
										*
				•	•					
	4									

WETLAND DETERMINATION DATA FOR	RM - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project City/C	County: Chautauqua County Sampling Date: 49/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NT Sampling Point: DT 73
Investigator(s): Ben Uirts and Nicola Dutcher Section	on, Township, Range: Town of Hurover
Landform (hillatona tarraga eta): - + excesso . Local rel	lef (concave, convex, none): Con Note Slope (%):
Subregion (LRR or MLRA): LRR-R Lat: 42.475101	Long: -79. 149453 Datum: NAD 83
Soil Map Unit Name: Tremont Siltloam, O	to 3% Stores NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year?	(os X No (If no, explain in Remarks.)
Are Vegetation \( \frac{\lambda_{\sigma}}{\lambda_{\sigma}}\), Soil \( \frac{\lambda_{\sigma}}{\lambda_{\sigma}}\), or Hydrology \( \frac{\lambda_{\sigma}}{\lambda_{\sigma}}\) significantly disturbed in the site typical for this time of year?	rhad? Are "Normal Circumstances" present? Yes X No
Are Vegetation No. , Soil 125, or Hydrology 100 significantly distul-	atic? (If needed, explain any answers in Remarks.)
Are Vegetation Ma, Soil Ma, or Hydrology No naturally problem	
SUMMARY OF FINDINGS - Attach site map showing sar	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland? Yes No X  If yes, optional Wetland Site ID:
	10/12
Upland data point to wetland ABE	28 (MO). Data point taken on edge
of cultivared hoy Field. Upland field	next to dith ASOPHANT drains field so
of cultivaried hoy Field. Upland field it han be norvested for how.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leav	ves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13	Moss Trim Lines (B16)
Saturation (A3) Mari Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide O	dor (C1) Crayfish Burrows (C8)
	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  ed Iron (C4) Stunted or Stressed Plants (D1)
Drift Deposits (B3) Presence of Reduc	
Algal Mat or Crust (B4) Recent Iron Reduct Iron Deposits (B5) Thin Muck Surface	
1	11 D. B. (DA)
Inundation Visible on Aerial Imagery (B7) Other (Explain in R Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (Inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	
No wetland hydrology indicators obs	cred,
1 17	
and the season of the season o	ese en la companya de la companya de la companya de la companya de la companya de la companya de la companya de

2 5/	Absolute	Dominant India	ator Dominance Test worksheet:
Tree Stratum (Plot size: 30')			atus .
1. Quercus rubra	20		CO   That Are OBL, FACW, or FAC; (A)
2. Acer Saccharum	10	<u>Y</u> <u>HA</u>	Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: 202 (A/B)
6			
7	<del></del>		Prevalence Index worksheet:
	3	= Total Cover	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: \5'		= Total Cover	OBL species x 1 =
	1	V =	FACW species x 2 =
1. Kosa multiflua	72	1 17	FAC species x3 =
2			FACU species x 4 =
3			UPL species x5 =
4			Column Totals: (A) (B)
			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
6			1 - Rapid Test for Hydrophytic Vegetation
7	12		2 - Dominance Test is >50%
<b>~</b> 1	13	= Total Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5'			4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1. Euthamia graminifolia	10	N FF	data in Remarks or on a separate sheet)
2. Muhlenbergia Frondora	40		Problematic Hydrophytic Vegetation¹ (Explain)
3. Kanunculius acris	10	N FA	1 Indicators of hydric soil and wetland hydrology must
4. Trifolium pratense	30	Y FM	
5. Plantago l'anceolata	5	N FA	Definitions of Vegetation Strata:
6. Dancus carota	5	N UP	
7	<del></del> _	<del></del>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			<del></del>
8			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		i i	
10			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			Woody vines All woody vines prostes then 2.20 A in
12			Woody vines - All woody vines greater than 3.28 ft in height.
	100 :	= Total Cover	
Woody Vine Stratum (Plot size: 30')		1	
1. Not Applicable			
2			Hydrophytic
3			Vegetation Present? Yes No
4		· · · · · · · · · · · · · · · · · · ·	Present Tes NO
4			—
		= Total Cover	
Remarks: (Include photo numbers here or on a separate s	heet.)		
			·

Profile Desc	ription: (Describe t	o the dept	h needed to docun	ent the i	ndicator	or confirm	the absence	of Indicato	ers.)
Depth	<u>Matrix</u>			CFeatures	E	_Loc²	Texture		Remarks
(inches)	2.5 Y 3/2	<u>%</u>	SYR4/6		Type <sup>1</sup>	M	CL		I WITH THE
0-14		90		10	$\frac{1}{2}$				
14-20	2,57 S/1	<u>80</u>	54R 4/6	<u>20</u>	<u>'</u>	<u>M</u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
		<u> </u>							
		-		*					
<del></del>									
						<del></del>			
	<u></u>	<del></del>		·	<del>,</del>	<del></del>			
		-							
			·				2.		11-1 Banki-t-h-
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	i Sand Gr	ains.	*Location Indicators	for Proble	Lining, M=Matrix. matic Hydric Solis³:
Hydric Soil			Polyvalue Belov	w Surface	(S8) (I P	RR.			(LRR K, L, MLRA 149B)
Histosol	pipedon (A2)		MLRA 149B		(50) (210	1 1 1 1 1	Coast	Prairie Red	lox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa	ice (S9) (l					or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky f			(, L)			) (LRR K, L, M) Surface (S8) (LRR K, L)
	d Layers (A5) d Below Dark Surface	e (A11)	Loamy Gleyed Depleted Matrix		<del>()</del>				e (S9) (LRR K, L)
	ark Surface (A12)	, ( ( )	X Redox Dark Su						Masses (F12) (LRR K, L, R)
	Jucky Mineral (S1)		Depleted Dark				Piedm	ont Floodpl	lain Soils (F19) (MLRA 149B) \6) (MLRA 144A, 145, 149B)
	Sleyed Matrix (S4)		Redox Depress	ions (F8)				arent Mate	
	Redox (S5) i Matrix (S6)						Very S	hallow Dar	k Surface (TF12)
	rface (S7) (LRR R, N	ILRA 1491	3)				Other	(Explain in	Remarks)
3	of hydrophytic vegetat		the and tour dead and sour	of ha nrac	ont unles	e dieturhed	l or problematic	n. ·	
	t nydropnytic vegetat Layer (if observed):		aliand nydrology mu	st be bles	ent, umo	a distarbed	T Or problemas		
Type:	N/A					ű.			$\checkmark$
Depth (in	ches):						Hydric Soi	Present?	Yes No
Remarks:			······································						
Sal	& ace hista	· \a ·							4.4
	s are hydra	- Dut	remnat 1	ny dric	-beca	use th	ey are i	media	the next to
a	ditch that	15 1	muerina 11		<b>L</b>		,		of 1000 12
		_	2 115	Note	Table				
	•								
,									
	;								
	•								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project City/County: Chautauqua County Sampling Date: 6/9/16
Ball Hill Wind Energy, LLC State: NT Sampling Point: Dr. 78 Sampling Point: State: NT Sampling Point: Dr. 78 Sampl
Repulsion and Nicke Dather Section Township Range: 1947 of Handler
Local relief (concave, convex, none); Concave Slope (%),
Subregion (I DD or MI DA): LRR-R Long:
Soil Map Unit Name: Towerille Silt Loan, 35 to 50% Sloper NWI classification: Upland
Assettiments / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation No., Soil No., or Hydrology No. significantly disturbed?  Are "Normal Circumstances" present? Yes X No.
Are Vegetation No., Soll No. or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes X No  Is the Sampled Area  within a Wetland?  Yes X No
Hydric Soil Present? Yes No
Wetland Hydrology Present?  Yes X No If yes, optional Wetland Site ID:  Remarks: (Explain alternative procedures here or in a separate report.)
PFO wetland in floodplain of Stream A540. Floodplain wetlend is in
a revine/confined valley. Ground untor discharge to the Stream where the Stream
Starts to drop-off and bedrack it exposed. Receives some groundward seep From Eastern
Donk of raine.
HYDROLOGY  Westernet Hydrology Indicators:  Secondary Indicators (minimum of two required)
Wetland Hydrology indicators.
Primary indicators (minimum of the strength of
More Trim Lines (R16)
High Water Table (AZ)
Saturation (A3) Crayfish Burrows (C8)
Segiment Deposits (D2)
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aquitard (D3)  Thin Muck Surface (C7)  Shallow Aquitard (D4)
X Iron Deposits (B5)  Other (Explain in Remarks)  Microtopographic Relief (D4)
Inundation visible on Acids imagery (D7)
Sparsely vegetated Collicave Surface (ES)
Field Observations:  Surface Water Present?  Yes X No Depth (inches): 0,5
Wester Table Propert? Ves X No. Depth (Inches): 8"
Saturation Present? Yes X No Depth (inches): O" Wetland Hydrology Present? Yes No No No No No No No No No No No No No
(Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, momenty was
Remarks:
Iron deposits where grandwar is discharged from verland to Stream. Water stained leaves from throughout wetland and flood plain.
Land O
throughout wetland and flow plain.

	-			
Tree Stratum (Plot size:36')	Absolute	Dominar Species	nt Indicator	Dominance Test worksheet:
1 Page 1		V		Number of Dominant Species
1. Raya ovata	20	<del></del>	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Betula alleghaniensis		<u> Y</u>	<u>FAC</u>	Total Number of Dominant
3. Fagus grandifalla	10	N	FACU	Species Across All Strata: (B)
4. Acer Sacharum	5	N	FACU	
				Percent of Dominant Species That Are OBL, FACW, or FAC: 64.672 (A/B)
		<del></del>	<del>-</del>	(PUD)
6	·			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	_SS	= Total Co	over	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \ \ 5' )				FACW species x 2 =
1. Ace Sakcharum	15	Υ	FACU	FAC species x 3 =
R. J. Sattharum	12	<del>'</del>		FACU species x4 =
2. Betula alleghaniensis	15	<u> </u>	FAC	
3. Lindera benzoin	10	$\overline{N}$	FACW	
4.				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6			<del> </del>	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
7		************	-	
<b></b> (	40	= Total Co	ver	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')		_		3 - Prevalence Index is ≤3.0¹
1. Impations capensis	20	Y	FACO	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Carex Flava	40	Y	OBL	
2. Carce Tiava	S	<del></del>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Euthamia graminifolia			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Betula alleghaniensis		<u>N</u>	FAC	be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
6				T 10/
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or equal to 5.26 ft (1 fii) tail.
10				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12.				Woody vines - All woody vines greater than 3.28 ft in
12	· ·			height.
701	70	= Total Cov	ver	
Woody Vine Stratum (Plot size: 30')				
1. Not Applicable	·			
2.				Hydrophytic
3	<del></del>			Vegetation Present? Yes No
3	······································			Liezeliti ies / No
4				· ·
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s	heet.)	······		
•				

	ription: (Describe to	rine net	itti ileeded to docui	HIGHL MIC	iluicator c	of CORRESION	the absence of indicat		
Depth	Matrix	0/	Color (moist)	ox Feature %	<u>s</u> Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
(inches)	Glev 1 2.5/ wy	<u>%</u>			TAha		Si L		
0-8				10	Ŕm		<u></u>		
8-20	2.5Y 3/1	+5%		15	ICIN	<u>M</u>			<del></del> :
			7.5 YR 4/4	10	<u> </u>	<u>M</u>			
			<u>,</u>						
		<del></del>							
<u>-</u>									····
		<del></del>				<del></del>			
	<del></del>								,
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	IS=Maske	d Sand Gra	ains.	<sup>2</sup> Location: PL=Por	Lining, M=Matri	X.
Hydric Soil	Indicators:						Indicators for Probl		
Histosol			Polyvalue Beld		e (S8) (LRI	RR,		) (LRR K, L, MLF dox (A16) (LRR I	
	pipedon (A2) istic (A3)		Thin Dark Sur		LRR R, MI	LRA 149B)	5 cm Mucky Pea	t or Peat (S3) ( <b>Li</b>	RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky			, L)		7) ( <b>LRR K, L, M</b> ) · Surface (S8) ( <b>LF</b>	
	d Layers (A5) d Below Dark Surface	(814)	Loamy Gleyed		2)			ce (S9) ( <b>LRR K, I</b>	
	ark Surface (A12)	(ALI)	➤ Redox Dark S		) .		Iron-Manganese	Masses (F12) (L	.RR K, L, R)
Sandy f	Mucky Mineral (S1)		Depleted Dark	Surface (	F7\		Piedmont Flood	olain Soils (F19) (	(MLRA 149B)
							Masia Spedia /T	A6) (MI PA 144A	145 149R)
	Gleyed Matrix (S4)		Redox Depres					A6) ( <b>MLRA 144A</b> erial (F21)	<b>1,</b> 145, 149B)
Sandy F	Gleyed Matrix (S4) Redox (S5)						Red Parent Mat	erial (F21) ark Surface (TF12	
Sandy F	Gleyed Matrix (S4)	ILRA 149	Redox Depres			•	Red Parent Mat	erial (F21) ark Surface (TF12	
Sandy I Stripped Dark St	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) urface (S7) (LRR R, M		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Do Other (Explain in	erial (F21) ark Surface (TF12	
Sandy F Stripped Dark St  3Indicators of	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M of hydrophytic vegetati		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Do Other (Explain in	erial (F21) ark Surface (TF12	
Sandy F Stripped Dark St  3Indicators of	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) urface (S7) (LRR R, M		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy F Stripped Dark St  3Indicators of Restrictive	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Do Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	
Sandy F Stripped Dark St  Indicators of Restrictive Type:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  *Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  *Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  *Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  *Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy if Stripped Dark Su  Indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)
Sandy i Stripped Dark Su  3indicators of Restrictive Type: Depth (ir	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, M If hydrophytic vegetati Layer (If observed): N		Redox Depres	ssions (F8		s disturbed	Red Parent Mat Very Shallow Da Other (Explain in	erial (F21) ark Surface (TF12 n Remarks)	2)

WETLAND DETERMINATION DA	TA FORM – Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County sampling Date: U916
Applicant/Owner: Ball Hill Wind Energy, LLC	State: Sampling Folia.
1 Ben Witt and Wild Dubber	Section, Township, Range: Town of Hannier 202
to a distance to be the Hillstone	Local relief (concave, convex, none): CSVVX Slope (%):
a table 4 PD and 4 DAY LRR-R Late 42.47	Long: Jane Datum.
Soil Man Unit Name: Towerville Silt Lower	350500/0510005 NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, explain in Remarks.)
Are Vegetation No , Soil No , or Hydrology No significa	antly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No., Soil No., or Hydrology No naturally	
SUMMARY OF FINDINGS – Attach site map show	ring sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No X  No X	Is the Sampled Area within a Wetland? Yes No >>  If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate	n (a 2 G
Upland data point for Ho Wellend	A639. Own point lucated new netterd
in confined valley on the hillstope	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ar	Oply) Surface Soil Cracks (B6)
	ined Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fa	
Saturation (A3) Marl Depo	
The state of the s	Sulfide Odor (C1) Crayfish Burrows (C8)  Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4)  Stunted or Stressed Plants (D1)
The second secon	on Reduction in Tilled Soils (C6) Geomorphic Position (D2)
	k Surface (C7) Shallow Aquitard (D3)
11011 D0P00110 (2-0)	plain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (in	
Water Table Present? Yes No _X Depth (in	nches): Wetland Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (in	ICHOS).
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if available:
Remarks:	
No hydrology indicators ob	reand
The second of the second	3614601

Tree Stratum (Plot size: 36 )	Absolute	Dominant		Dominance Test worksheet:
,		Species?		Number of Dominant Species 2
1. Ace Saccharum	45	<u> </u>	PACU	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. Betula alleghaniensis	50	Y	FAC	
3. Tsuga Canadensis	5	<u></u>	FACU	Total Number of Dominant Species Across All Strata:  (B)
			17.50	Openies Across Air Strata, (B)
4	<del></del>		<del></del>	Percent of Dominant Species That Are OBL FACW or FAC: 50% (A/B)
5	·			That Are OBL, FACW, or FAC: SO/ (A/B)
6				
	-			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	100	= Total Cov	er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: \\) \( \sqrt{5}' \)				FACW species x2 =
1 A	25 kg	. 🗸	FACU	FAC species <u>95</u> x3 = <u>285</u>
	2 /	<del>\</del>		FACU species 89 x4 = 356
2. Betula alleghanizasi's	<u> </u>		FAC	UPL species 2 x5= 10
3				
4.				Column Totals: 186 (A) 651 (B)
5				Prevalence Index = B/A = 3,5
		<del></del>		Hudronhydia Vanatalian Indiantary
6				Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
	_SS_	= Total Cov	er	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	10	V	Tile	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Betula alleghaniensis			FAC	data in Remarks or on a separate sheet)
2. Acer Saccharoum		<u>Y</u>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Trillium grandiflorum	2	N	UPL	Indicators of hidden will and water district and
4. Rubus idaeus	2	<del></del>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	5	<u>N</u>		
5. Toxicodendron radicans		N	FAC	Definitions of Vegetation Strata:
6. Dryopteris maginalis	2	N	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
	•			
8				Sapling/shrub Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			-	and ground than or oqual to 0.20 ft (1 fil) tall,
10				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
		<del></del>		Woody vines – All woody vines greater than 3.28 ft in
12		<del></del>		height.
	31 =	Total Cove	er e	
Woody Vine Stratum (Plot size: 30')		٠.		
1. Nor Applicable				
		·		Hydrophytic
2	<del></del>			Vegetation V
3				Present? Yes No
4.				
	7			
		Total Cove	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
				•
				•
				·
				·
				•

epth						DI 00111111111	the absence of indicat		
nches)	Matrix Color (moist)	%	Color (moist)	x Feature:	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
)- 13	2.5Y 5/4	90	7.54R 4/4	10	C	M	SiL		· · · · · · · · · · · · · · · · · · ·
	2.5Y 5/4	- <u>-1-</u> 80	7,5YR414	20	$\overline{C}$	m	SiL		
<u>, .∀0</u>	<u> </u>	80				m			
		<u> </u>	2.54 5/2	<u> </u>	0				
				•					
		-							
		<del></del>							
							2. (1 = = =	- 1 lmlma - 14-14-1	lelv
ype: C=C	oncentration, D=De	pletion, R	M=Reduced Matrix, M	S=Maske	d Sand G	rains.	<sup>2</sup> Location: PL=Poi indicators for Prob	e ∟ining, m≕mat lematic Hvdric	Solls <sup>3</sup> :
	Indicators:		Dalambia Dele	na Curtos	(QQ) /I D	RR		) (LRR K, L, ML	
_ Histosol	(A1) pipedon (A2)		Polyvalue Belo		- (00) ( <b>LN</b>	.13 13;	Coast Prairie R	edox (A16) (LRR	₹ K, L, R)
	istic (A3)		Thin Dark Surf		LRR R, N	ILRA 149B		at or Peat (S3) (I	
	en Sulfide (A4)	•	Loamy Mucky			<b>(, L)</b>	Dark Surface (S	i7) ( <b>LRR K, L, M</b> v Surface (S8) ( <b>I</b>	I) I RR K. L)
	d Layers (A5)	44.44	Loamy Gleyed		2)			ce (S9) (LRR K	
	d Below Dark Surfa ark Surface (A12)	ce (A11)	Depleted Matri		<b>s</b> ) .		Iron-Manganes	e Masses (F12)	(LRR K, L, R
11110000	aik Sunace (AIZ)								\ /841 15 A 4 4 G
Sandy I	Mucky Mineral (S1)		Depleted Dark	Surface (	(F7)		Piedmont Floor	iplain Soils (F19)	) (WLRA 149
	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark Redox Depres				Mesic Spodic (	ΓΑ6) ( <b>MLRA 14</b> 4	1A, 145, 149E
Sandy ( Sandy i	Gleyed Matrix (S4) Redox (S5)						Mesic Spodic (** Red Parent Ma	rA6) ( <b>MLRA 14</b> 4 terial (F21)	IA, 145, 149E
Sandy ( Sandy i Strippe	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	MLRA 14	Redox Depres				Mesic Spodic (** Red Parent Ma	ΓΑ6) ( <b>MLRA 14</b> 4 terial (F21) ark Surface (TF	IA, 145, 149E
Sandy ( Sandy i Strippe Dark St	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R,		Redox Depres	sions (F8	)		Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	ΓΑ6) ( <b>MLRA 14</b> 4 terial (F21) ark Surface (TF	IA, 145, 149E
Sandy ( Sandy I Stripped Dark Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R,	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	ΓΑ6) ( <b>MLRA 14</b> 4 terial (F21) ark Surface (TF	IA, 145, 149E
Sandy ( Sandy i Stripped Dark Su ndicators of estrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	ΓΑ6) ( <b>MLRA 14</b> 4 terial (F21) ark Surface (TF	1 <b>45, 149E</b>
Sandy ( Sandy i Stripped Dark Stripped Dark Strictive  Type:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	IA, 145, 149E
Sandy ( Sandy I Stripped Dark Stripped Dark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy I Stripped Dark Stripped Dark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy i Stripped Dark Strictive  Type:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy if Stripped Dark Sundicators ( estrictive  Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>
Sandy ( Sandy I Stripped Dark Stripped Dark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic veget Layer (if observed	tation and	Redox Depres	sions (F8	)	ss disturbed	Mesic Spodic ( Red Parent Ma Very Shallow D Other (Explain	TA6) (MLRA 144 terial (F21) ark Surface (TF in Remarks)	1 <b>45, 149E</b>

WETLAND DETERMINATION DATA FOR	
Project/Site: Ball Hill Wind Project City/C	ounty: Chautauqua County Sampling Date: 6 10 10
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DF 708
Section De Lort and Micale Dutter Section	on, Township, Range: Town of Henover
Local reli	lef (concave, convex, none): Slope (%): Slope
Subragion (LRR or MLRA): LRR-R Lat: 96,48460"	Long: Datum:
Soil Map Unit Name: HrB Hornell Silt loam, 3 to 8 %	Slopes NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es X No (If no, explain in Remarks.)
Are Vegetation 12. Soil 12. or Hydrology 12. significantly distur	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No., Soil No., or Hydrology No. naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	ipling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes X No Yes X No	Is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
PEM westland in concare depression	
Old railroad bed. Area burned up at water to pool during part of	ge to ditch outside study area along
old railroad bed. Area burned up al	long old tall road bed, which is cousing
hoter to poor during part of	the year
UIDKOLOGI	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (Infilmman of two regalities)  Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply)	D. U (D40)
Surface Water (A1) Water-Stained Leav	(
High Water Table (A2)  Saturation (A3)  Aquatic Fauna (B13)  Marl Deposits (B15)	, and the Table (CO)
Water Marks (B1) Hydrogen Suffide Or Sediment Deposits (B2) Oxidized Rhizosphe	(00)
Sediment Deposits (B2) Presence of Reduce	
Algal Mat or Crust (B4) Recent Iron Reduct	
Iron Deposits (B5) Thin Muck Surface	(C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	emarks) Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	★ FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	_
Spersey regeteted concern durface,	area doesn't have surface water now but
evidence of puning   stonding water	during pats of the year. Geomorphic
Pushen -> at water being Stippes	by burn that next built up for the millions!

Tree Stratum (Plot size: 20' × 20')		Dominant		Dominance Test worksheet:
Tige Stratum (Plot size:)	_% Cover	Species?	Status	Number of Dominant Species
1. Not Applicable				That Are OBL, FACW, or FAC:(A)
				THAT AIR ODE, I AOW, OF I AO(A)
2				Total Number of Dominant
3				Species Across All Strata; (B)
1 .				openies resources (b)
4				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
5				(700)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		T-4-1 O	-	
		≃ Total Cov	/er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: \\S'\x\\5'\)				FACW species x 2 =
I lister la colo	20	Y	FACW	
1. Lindera benzoin	<u> </u>	<u></u>	THEW	FAC species x 3 =
2			•	FACU species x 4 =
	•	<del></del>	<del></del>	UPL species x 5 =
3				
				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
5	******		·	
6				Hydrophytic Vegetation Indicators:
The state of the s				1
7				★ 1 - Rapid Test for Hydrophytic Vegetation
	26	= Total Cov	or	2 - Dominance Test is >50%
~1,, ~ .		- 10tai 00v	OI	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5'×5')				1 '
1. Lindera benzoin	16	V	FACW	4 - Morphological Adaptations¹ (Provide supporting
1. "aga certors			FFICW	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			-	
3,				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
<b>4. 5.</b>	<del></del>			
5			a Maria	Definitions of Vegetation Strata:
6	,			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8	4			Sapling/shrub - Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9	A	·		
10			**	Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11	***************************************	·		•
12.				Woody vines - All woody vines greater than 3.28 ft in
14,				height.
	16 :	Total Cov	er	<u> </u>
14. 1 in a in a in a in a in a in a in a in				•
Woody Vine Stratum (Plot size: 20' x 20')				
1. Not Applicable				
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				123
2				Hydrophytic
0				Vegetation
3				Present? Yes No
4.				· .
	- X	<del></del>		
	<u> </u>	= Total Cov	er	
Remarks: (include photo numbers here or on a separate s	sheet.)			
(management)				
				·
				·
	•			
				İ
	•			<u> </u>

	ribitou: (Describe r	o me deb	tu useded to docau	ient the i	ndicator	or confirm	the absence of ind	icators.)	1	
Depth	<u>Matrix</u>			CFeatures	§	. 2		Damania		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7	2.54 3/1	90	7. SYR 3/4	10	<u> </u>	<u>M</u>	SIL	w		
7-17	2.544/2	<u>80</u>	2.54 31	15	D	M	<u> </u>			
			7.54 4/6	5	C	M				
		************	<u></u>	<del></del>						
				***************************************	-	***************************************				
		<del></del>								
	<del> </del>	***								
				<del></del>	*****************					
								<u> </u>		
						<del></del>	2			
	oncentration, D=Depi	etion, RM:	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	*Location: PL=	Pore Lining, M=Mai roblematic Hydric	rix. Solls <sup>3</sup> :	
Hydric Soll			Polyvalue Belov	u Quala a -	/00\ /I P	D D		A10) ( <b>LRR K, L, M</b> L		
Histosol	(A1) pipedon (A2)		MLRA 149B)		(56) (LK	KK,		Redox (A16) (LRR		
	stic (A3)		Thin Dark Surfa		.RR R, M	LRA 149B)		Peat or Peat (S3) (I		
	en Sulfide (A4)	•	Loamy Mucky N				Dark Surface	e (S7) (LRR K, L, M		
	d Layers (A5)		Loamy Gleyed I		2)			elow Surface (S8) (I		
	d Below Dark Surface	e (A11)	Depleted Matrix					urface (S9) (LRR K,		
	ark Surface (A12)		Redox Dark Sur Depleted Dark \$				Iron-Manganese Masses (F12) (LRR K, L, R) Pledmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1)		Depleted Dark (	ouriace ir	-/		FIGUITORICE		/ transfer to t	
Sandy C	Slaved Matrix (SA)				• ,					
	Sleyed Matrix (S4) Redox (S5)		Redox Depress		•,		Mesic Spodi	c (TA6) ( <b>MLRA 144</b> Material (F21)		
Sandy F	Bleyed Matrix (S4) Redox (S5) I Matrix (S6)				.,	·	Mesic Spodi Red Parent Very Shallov	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1	A, 145, 149B)	
Sandy F	Redox (S5)	ILRA 1491	Redox Depress		•,	·	Mesic Spodi Red Parent Very Shallov	c (TA6) ( <b>MLRA 144</b> Material (F21)	A, 145, 149B)	
Sandy F Stripped Dark Su	Redox (S5) I Matrix (S6) rface (S7) (LRR R, N		Redox Depress	ions (F8)		e disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1	A, 145, 149B)	
Sandy F Stripped Dark Su  Indicators o	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N f hydrophytic vegetat	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1	A, 145, 149B)	
Sandy F Stripped Dark Su  Indicators o  Restrictive	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N f hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1	A, 145, 149B)	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type:	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	A, 145, 149B)	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type:	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type: Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	
Sandy F Stripped Dark Su  *Indicators o  Restrictive  Type:  Depth (in	Redox (S5) I Matrix (S6) Irface (S7) (LRR R, N If hydrophytic vegetat Layer (If observed):	ion and we	Redox Depress	ions (F8)		s disturbed	Mesic Spodi Red Parent Very Shallov Other (Expla or problematic.	c (TA6) ( <b>MLRA 144</b> Material (F21) v Dark Surface (TF1 ain in Remarks)	<b>A, 145, 149B</b> )	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: Chautauqua County Project/Site: Ball Hill Wind Project Applicant/Owner: Ball Hill Wind Energy, LLC Investigator(s): Ben Unto an Missile Outster Section, Township, Range: Town of Harrover Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex \_\_\_\_ Slope (%):<u>5-8ん</u> Datum: NAD 83 Lat: 42.484825 Long: -79.149637 Subregion (LRR or MLRA): LRR-R NWI classification: Word Soil Map Unit Name: HrB-Hornell Silt loam, 3-82 slopes No \_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes \_\_X\_\_ No\_\_\_ Are Vegetation No., Soil No., or Hydrology No. significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation No., Soil No., or Hydrology No. naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Yes\_\_\_\_\_ No 🛧 Is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Yes \_\_\_\_\_ No X Hydric Soil Present? Yes \_\_\_\_\_ No X Wetland Hydrology Present? If yes, optional Wetland Site ID:\_\_\_\_ Remarks: (Explain alternative procedures here or in a separate report.) Upland data point For wetters (PEM in forest) A640, Located near bemofold railroad bed. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) Surface Water (A1) \_\_\_ Moss Trim Lines (B16) Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) Mari Deposits (B15) Saturation (A3) Cravfish Burrows (C8) Hydrogen Sulfide Odor (C1) Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Shallow Aquitard (D3) Thin Muck Surface (C7) Iron Deposits (B5) Microtopographic Relief (D4) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes \_\_\_\_ No X Depth (inches): Surface Water Present? Yes \_\_\_\_ No \_Y Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_ No X Yes \_\_\_\_ No \_ Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No wetters hydrology obstruct.

	Absolute	Dominan	t Indicator	
Tree Stratum (Plot size: 30' L)		Species?		Dominance Test worksheet:
1. Acersaccharum	95	У	FAW	Number of Dominant Species
1		. —/		That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 42.8 (A/B)
0	<del></del>			(35)
6	<del></del>			Prevalence Index worksheet:
7	·			Total % Cover of: Multiply by:
	95	= Total Co	VAT	OBL species x1 =
Sapling/Shrub Stratum (Plot size: \5'\(\mathcal{L}\)		7010,00		FACW species _ '2\circ\ x 2 = _ 4\circ\
	_	V		
1. Acer Sacchorm	20	<u> </u>	FACU	FAC species $37 \times 3 = 111$
2. Lindern benzoin	10	<u>Y</u>	FALW	FACU species _143 _ x4= _572
3. Fagus grandifalia	10	V	FACU	UPL species x5=
50.4	5	7		Column Totals: 223 (B)
4. Fraxinus Pennsylvanica			FACU	
5			·	Prevalence index = B/A: 3.61
6,				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
<u> </u>	45		•	2 - Dominance Test is >50%
J 10	12	= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5' 12 )				
1. Toxicodendron radicans	10	Υ.	FAC	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
2. Fraxinos penesylvania	5	N	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	<del>-2</del> -	<del></del>		Problematic Hydrophytic vegetation (Explain)
3. Fagus grandifolia	<del></del>	<u>N</u>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Inillium erectum	<u>2</u>	N	FAL	be present, unless disturbed or problematic.
5. Fragaria Vilginiana	25	Υ	FAC	Definitions of Vegetation Strata:
6. Lonicera tatarica	3	N.	FACU	
	· <del></del>	- 14	rreu	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				at bleast neight (DDD), regardless of neight.
8	1 1 1			Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
40			*	Herb - All herbaceous (non-woody) plants, regardless of
10	<del></del>			size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12			<u> </u>	height.
	50	- Total Cov	/er	•
Mandu Vina Stratum (Diet at 2412	· · · · · · · · · · · · · · · · · · ·	, otal ook	. •1	
Woody Vine Stratum (Plot size: 36' K )	- 10	V	_	
1. Vitis aestivalis	10		Fren	
2				Hydrophytic Vegetation
3.	_			Present? Yes No
A	<del></del>			
4	1.			
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	heet.)			
		*		

I	ription: (Describe 1	o the dep	th needed to docur	nent the i	ndicator	or confirm	the absence of Indica	tors.)			
Depth (inches)	Matrix	%	Color (moist)	x Features	Type <sup>1</sup>	L c - 2	Texture	Remarks			
(inches) 0- 6	2.5 y 3/3	100	Color (moist)		<u>rype</u>	LOC	Si L	I/Gilidivə			
	<del></del>		0-1141				CL				
<u>10-20</u>	2.54 514	<u>75</u>	2,544/2	10	<u>U</u>	<u>M</u>	<u> </u>				
			104R 5/8	15	<u> </u>	<u>m</u>					
					***						
•				•		_					
					<del></del>			ν.			
			<u> </u>								
*	-			-							
						<del></del>					
								·			
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion. RM	=Reduced Matrix. M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.			
Hydric Soil I								ematic Hydric Solls³:			
Histosol	• •		Polyvalue Belo		(S8) ( <b>LR</b> F	R,		) (LRR K, L, MLRA 149B)			
	oipedon (A2)		MLRA 149B	,	22 2 W	DA 440D)		dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R)			
Black His	stic (A3) n Sulfide (A4)	-	Thin Dark Surfa				S chi Mucky Pea				
	Layers (A5)		Loamy Gleyed			, -,		Surface (S8) (LRR K, L)			
	l Below Dark Surface	(A11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)				
	urk Surface (A12)		Redox Dark Su		7\			Masses (F12) ( <b>LRR K, L, R</b> ) Diain Solls (F19) ( <b>MLRA 149B</b> )			
	lucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depress		"	•		A6) (MLRA 144A, 145, 149B)			
	edox (S5)			` '			Red Parent Mate				
	Matrix (S6)						Very Shallow Da	rk Surface (TF12)			
~			<b>-</b> \				Other (Evolein is	- Domarka)			
Dark Sui	rface (S7) (LRR R, M	ILRA 149	<b>B</b> )				Other (Explain in	n Remarks)			
	rface (S7) (LRR R, M			st be prese	nt, unless	s disturbed		n Remarks)			
<sup>3</sup> Indicators of Restrictive L	hydrophytic vegetat			st be prese	nt, unless	s disturbed		n Remarks)			
<sup>3</sup> Indicators of <b>Restrictive L</b> Type:	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed (	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed o		*			
<sup>3</sup> Indicators of <b>Restrictive L</b> Type:	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			
<sup>3</sup> Indicators of Restrictive L Type: Depth (ind	hydrophytic vegetat ayer (If observed):			st be prese	nt, unless	s disturbed	or problematic.	*			

	FORM - Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 6016
Applicant/Owner, Ball Hill Wind Energy, LLC	State: NY Sampling Point; DP- 173
Investigatoria): Para Utita (a) Nicole Dutcher	Section, Township, Range: Town of Hancrer
Landform (hillstone terrace etc.): de Messian Lo	ocal relief (concave, convex, none): Concove Slope (%): 0-2/-
Subragion / RR or MI RA). LRR-R Lat: 1/2,4/8	8841 Long: -+1,199921 Datum: 1470 00
Soll Map Unit Name: BrB-Barcelona Sitt loam,	3-82 Slopes NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes X No (If no, explain in Remarks.)
Are Vegetation No., Soll No., or Hydrology No significanti	y disturbed?  Are "Normal Circumstances" present? Yes No
Are Vegetation No., Soil No., or Hydrology No naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map snowin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate rep	Is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID:  A COLI Dort.)
PEM data point for world AGY	1. Starting at Stream AS46 alluvial Ifan
HYDROLOGY	A. J. J. J.
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Water-Staine  High Water Table (A2) Aquatic Faur	
1	Table (C2)
	ulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  National Sediment Deposits (B2)  Oxidized Rh	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Solls (C6) Geomorphic Position (D2)
iron Deposits (B5) Thin Muck S	Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Expla	ain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	611
Surface Water Present? Yes No X Depth (Inch	
Water Table Present? Yes X No Depth (inch	
Saturation Present? Yes X No Depth (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pi	notos, previous Inspections), if available:
5	
Remarks:	
. · · •	•
·	
	·
1	•

	<del></del>			
Tree Stratum (Plot size: \\S' \(\mathbb{C}\)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Ulmur americana	10	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				
3				Total Number of Dominant   Species Across All Strata:(B)
4				1
		•	<del></del>	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	•		-	(20)
6	<del></del>	<del></del>		Prevalence Index worksheet:
7	- 12		·	Total % Cover of: Multiply by:
	10	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 (C)				FACW species x 2 =
1. Ulmus americana	17	<del>-</del>	FACH	FAC species x 3 =
2	<del></del>			FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5		_ <del></del>		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7	·			1 - Rapid Test for Hydrophytic Vegetation
<u> </u>	15			2 - Dominance Test is >50%
Herb Stratum (Plot size: 5'(L)	<del></del>	≃ Total Cov	er	3 - Prevalence Index is ≤3.01
	۱ د،	1	۲۵.	4 - Morphological Adaptations (Provide supporting
1. Onocka Sensibilis	15	N	FACW	data in Remarks or on a separate sheet)
2. Impatiens Capensis		<u>M</u>	FACH	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Toxi coden dran radicans		<u> </u>	FAC	Indicators of hydric soil and wetland hydrology must
4. Leersia oryzoides	70	<u>Y</u>	<u> </u>	be present, unless disturbed or problematic.
5.	·	• • •	, 2 °	Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8		•		Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12.				Woody vines - All woody vines greater than 3.28 ft in
	100	= Total Cov		height.
Woody Vine Stratum (Plot size: 1517)	100	- Total Cov	ei ei	
1. No+ Applicable	•			
1. THE THE THE PARTY OF THE PAR				Hydrophytic
2				Vegetation
3				Present? Yes No
4		. <del></del>		
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate	•			
Vegetation plot size adjusted	to fit	in the	Conf	no.
1		,		of the wellow

<b>.</b>	ription: (Describe	to the dep	th needed to docu	ment the li	ndicator	or contirm u	De Spseitce of undicato	ra.)	1	
Depth	Matrix		Red	ox Features	i			•		
(inches)	Color (moist)	%	Color (molst)	%	Type <sup>1</sup>	Loc2 _	<u>Texture</u>	Remarks		
0-6	2.5441	70	54R 3/4	30	<u>C</u>	MIPL	<u> </u>			
6-20	2, 54 4/1	95	54R 3/4	5	C	M	- Síl			
0 00	-33'		1			<del></del> -			_	
				•						
		· ····				***********				
		<del></del>		·			· · · · · · · · · · · · · · · · · · ·			
			<del> </del>				<u> </u>			
									l	
***************************************			<u>, , , , , , , , , , , , , , , , , , , </u>					· · · · · · · · · · · · · · · · · · ·	-	
	<del></del>									
1Tune: 0=0			-Dadward Matthe A				<sup>2</sup> Location: PL=Pore	Lining M≃Matrix		
Hydric Soll I		uletion, KM	=Reduced Matrix, N	NO-IVIASKO	oanu U	ali iə.	Indicators for Proble		$\neg$	
Histosol			Polyvalue Bel	ow Surface	(S8) (LR	R.R.		(LRR K, L, MLRA 149B)		
	oipedon (A2)		MLRA 149		(00) (4	,	Coast Prairie Rec	lox (A16) (LRR K, L, R)	ŀ	
	stic (A3)		Thin Dark Sur	face (S9) (I				or Peat (S3) (LRR K, L, R	)	
	n Sulfide (A4)		Loamy Mucky			(, L)	Dark Surface (S7		1	
	Layers (A5)		Loamy Gleyer		2)			Surface (S8) (LRR K, L)		
	d Below Dark Surfac ark Surface (A12)	ce (A11)	Depleted Mate				Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Pledmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1)		Depleted Dark							
	Bleyed Matrix (S4)		Redox Depre			•		(6) (MLRÀ 144A, 145, 149		
	tedox (S5)						Red Parent Mate	rial (F21)		
Stripped	Matrix (S6)							rk Surface (TF12)		
Dark Su	rface (S7) (LRR R,	MLRA 149	B)				Other (Explain In	Remarks)		
									1	
3indiantors o	f hydronhydlo yogof	otion and u	otland hydrology m	net ha nrae	ant unla	e dieturhed	or problematic			
			etland hydrology m	ust be pres	ent, unle	s disturbed	or problematic.			
Restrictive	Layer (if observed	<b>)</b> ;		ust be pres	ent, unle	ss disturbed	or problematic.			
Restrictive   Type:	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	ss disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> ;		ust be pres	ent, unle	ss disturbed	or problematic. Hydric Soll Present?	Yes No		
Restrictive   Type:	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive   Type: Depth (in	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No	-	
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unles	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unles	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unles	s disturbed		Yes No		
Restrictive Type: Depth (in-	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unles	s disturbed		Yes No		
Restrictive   Type: Depth (in	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unles	s disturbed		Yes No		
Restrictive   Type: Depth (in	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive   Type: Depth (in	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unle	s disturbed		Yes No		
Restrictive   Type: Depth (in	Layer (if observed N (A	<b>)</b> :		ust be pres	ent, unles	s disturbed		Yes No		

	FORM - Northcentral and Northleast Region
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 6/10/16
Applicant/Outper: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 1.11
Investigator(s): Ben VI/T and Nigote Dutcher	Section, Township, Range: Toun of Hanover
· · · · · · · · · · · · · · · · · · ·	ralization (concave convex none): ((XCAVC Slope (%):
Subragion (IBB or MI DA): LRR-R Lat. 42,489	9576 Long: -11,1503612 Datum: 14AD 03
Soil Map Unit Name: Barcelona SiltLoan	3to 8% Slopes NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No (If no, explain in Remarks.)
Are Vegetation No., Soll No., or Hydrology No. significantly	disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No., Soil No., or Hydrology No naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 😾 No	Is the Sampled Area  Within a Wetland? Yes No
Hydric Soil Present? Yes X No	101011
Wetland Hydrology Present? Yes X No	If yes, optional vveiland Site iD.
Remarks: (Explain alternative procedures here or in a separate repo	rt.)
PSS portion of wetland A64	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	a to a Call Ornale (DC)
Primary Indicators (minimum of one is required; check all that apply)	V 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Surface Water (A1) Water-Stained High Water Table (A2) Aquatic Fauna	44 The Hose (D46)
High Water Table (A2) Aquatic Fauna Mari Deposits	To Water Table (CO)
Water Marks (B1) Hydrogen Sul	fide Odor (C1) Crayfish Burrows (C8)
	ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of F	Reduced Iron (C4)Stunted or Stressed Plants (D1)
	teduction in Tilled Solls (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Su	
	n in Remarks) Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	[AO-Notice 1 to 1 to 2 to 3
Field Observations: Surface Water Present?  Yes No Depth (inche	as):
Surface Water Present? Yes No Depth (inche	no):
Saturation Present? Yes No X Depth (inche	1 m (a V X Na 1
(includes contillary frings)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	Jus, previous inspectation, it are inspect
Remarks:	
Daires all	
Thoughout, running	ing towards North end where it pools
more and turns into Pan want	
1 21-6" 1000240	n section of wetlow along the slope of
hiliside.	

	<del></del>			
Tree Stratum (Plot size: 30' L)		Dominant Species?		Dominance Test worksheet:
1. Nor Applicable				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				, ,
3				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species 1057
5		-		That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	_Ø_	= Total Cov	er	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15 12 )				FACW species x 2 =
1. Salix nigra	50	Y	OBL	FAC species x 3 =
2. Cornus racemusa		Y	FAC	FACU species x 4 =
3				UPL species x 5 =
4			——————————————————————————————————————	Column Totals: (A) (B)
5		*********		Prevalence index = B/A =
·				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	ጎ.	= Total Cov		Z 2 - Dominance Test is >50%
Herb Stratum (Plot size: S' 2 )		- Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Symphyotrichum puniceum	10	N	OBL	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Ranuncy in acris	5	- N	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Symphy otrichum prenanthoides	10	<u> </u>	FAL	
4. Impations Carpensis		<u>V</u>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Lysimachia nummularia	20	<del></del>	FACW	Definitions of Vegetation Strata:
6. Toxicodendron radicans	38	$\overline{\gamma}$	FAC	
	<u> </u>	N	PAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8			· <del></del> `	Sapling/shrub – Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall.
9.		<del></del>	<del></del>	Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11,			<del></del>	Woody vines - All woody vines greater than 3.28 ft in
12	140			height.
3010	700	= Total Cov	er .	
Woody Vine Stratum (Plot size: 30'R)			• • • • •	
1. NOT Applicable		<del></del>		Hydrophytic
2				Vegetation 🗸
3	<del></del>			Present? Yes No
4		·		
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
				•
	•			

Depth   Malik   Scolor (motes)   Sco	Profile Desc	ription: (Describe	to the dep	th needed to docun	ent the l	ndicator	or confirm	the absence	of Indicato	rs.)	
Type: C=Concentration, D=Depletion, RN=Reduced Matrix, M3=Masked Sand Grains.   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Indicators:   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil R= N=Matrix, Hydric Soil Present?   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Present?   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil R= N=Matrix, Hydric Soil R= N=Matrix, Hydric Soil Present?   *Locallon: PL=Pore Lining, M=Matrix, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present?   *Locallon: PL=Pore Lining, Hydric Soil Present   *Locallon: PL=Pore Lining, Hydri				Redox		<u>.</u> . 1	. 2	T4		Domorko	
Type: CaConcentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   *I_Location: PL=Pore Linion, M=Matrix, Hydric Soil Indicators:   Hydric Soil Indicators:   Hydric Soil Indicators:   Hydric Soil Indicators:   Hydric Soil Indicators:   Hydric Soil Indicators:   Hydric Soil Indicators:   Histosoi (A1)	1					Type				Kelilaiks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soll Indicators:  Indicators for Problematic Hydric Solls*:  Historic (A1)  Historic (A1)  Historic (A2)  Historic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Stratified Layere (A5)  Depleted Mentry (F3)  Loamy Miscy Mineral (F1) (LRR K, L)  Depleted Dark Surface (A12)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy (Beyed Matrix (S4)  Sandy Mucky Mineral (S1)  Sandy Watey Mineral (S1)  Sandy Redox (S8)  Sandy Redox (S8)  Sandy Redox (S8)  Soll Matrix (S8)  Dark Surface (A12)  Redox Depressions (F8)  Soll Matrix (S8)  Dark Surface (A14)  Neadox Depressions (F8)  Soll Matrix (S8)  Dark Surface (F1)  Other (Explain in Remarks)  **Hydric Soil Present? Yee   No  Remarks:	<u> </u>		· ———			=======================================					<del></del>
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosoil (A1) Polyvalue Below Surface (S9) (LRR R, Heliate Epipedon (A2)	10 10	a, 51 4/2				2				··········	
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Derivate Below Surface (S9) (LRR K, L) Derivate Below Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F7) Incincipation				1,51/2 4/16		<u> </u>	<u>-M</u> -				
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Derivate Below Surface (S9) (LRR K, L) Derivate Below Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F7) Incincipation			·							· · · · · · · · · · · · · · · · · · ·	
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Derivate Below Surface (S9) (LRR K, L) Derivate Below Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F7) Incincipation	·			,							
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Derivate Below Surface (S9) (LRR K, L) Derivate Below Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F7) Incincipation										a.	
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Derivate Below Surface (S9) (LRR K, L) Derivate Below Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F7) Incincipation											
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Derivate Below Surface (S9) (LRR K, L) Derivate Below Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (S9) (LRR K, L, R) Derivate Below Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F6) Incincipation Surface (F7) Incincipation											
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histo (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Derk Surface (S9) (LRR K, L, R)  Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (F7) Polyvalue Below Surface (F8) Thin Dark Surface (F8) (LRR K, L, R)  Sandy Redox (S5) Redox (S5) Redox Depressions (F8) Mesic Sopola (TA6) (MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  Pledmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21) Vary Shallow Dark Surface (TF12) Depleted Solver (T6) Depleted Solver (T6) Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Remarks:		**************************************									
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histo (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Derk Surface (S9) (LRR K, L, R)  Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (F7) Polyvalue Below Surface (F8) Thin Dark Surface (F8) (LRR K, L, R)  Sandy Redox (S5) Redox (S5) Redox Depressions (F8) Mesic Sopola (TA6) (MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  Pledmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21) Vary Shallow Dark Surface (TF12) Depleted Solver (T6) Depleted Solver (T6) Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Remarks:											<del></del>
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histo (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Derk Surface (S9) (LRR K, L, R)  Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (F7) Polyvalue Below Surface (F8) Thin Dark Surface (F8) (LRR K, L, R)  Sandy Redox (S5) Redox (S5) Redox Depressions (F8) Mesic Sopola (TA6) (MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  Pledmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21) Vary Shallow Dark Surface (TF12) Depleted Solver (T6) Depleted Solver (T6) Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Remarks:			· ——-								<del></del>
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histo (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Derk Surface (S9) (LRR K, L, R)  Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (F7) Polyvalue Below Surface (F8) Thin Dark Surface (F8) (LRR K, L, R)  Sandy Redox (S5) Redox (S5) Redox Depressions (F8) Mesic Sopola (TA6) (MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  Pledmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21) Vary Shallow Dark Surface (TF12) Depleted Solver (T6) Depleted Solver (T6) Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Remarks:										<del></del>	<del></del>
Hydric Soll Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histo (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Derk Surface (S9) (LRR K, L, R)  Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thin Dark Surface (F7) Polyvalue Below Surface (F8) Thin Dark Surface (F8) (LRR K, L, R)  Sandy Redox (S5) Redox (S5) Redox Depressions (F8) Mesic Sopola (TA6) (MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  Pledmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21) Vary Shallow Dark Surface (TF12) Depleted Solver (T6) Depleted Solver (T6) Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Q1   National Comment of Polymorphylic Vegetation and welland hydrology must be present, unless disturbed or problematic.  Remarks:									<del></del>		
Histosei (A1) Polyvalue Below Surface (S8) (LRR R, Canal Can	<sup>1</sup> Type; C≃Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location	PL=Pore	Lining, M=Matr	IX.
Histic Epipedon (A2)   MLRA 149B)   Coast Prairie Redox (A16) (LRR K, L, R)	} . •			Polyvalue Relov	w Surface	/S8\ /I RI	a p				i
Hydrogen Sulfide (A4)						(00) (111	× 14,				
Stratified Layers (A5)											
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Citing Agriculture (S7) Siripped Matrix (S6) Dark Surface (S7) Citing Agriculture (S7)							, L)				
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Solls (F19) (MLRA 149B) Sandy Cleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B)  3¹Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: VI IX Depth (inches): Hydric Soll Present? Yes No Remarks:			e (A11)	Depleted Matrix	(F3)			Thin D	ark Surface	(S9) (LRR K,	L)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parenti Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: VH IN Depth (inches): Hydric Soli Present? Yes No Presents:									-		
Sandy Redox (S5) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3-Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: VI IN Depth (inches): Hydric Soli Present? Yes No Remarks:					•	-	•				
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  \lambda    \lambda    \lambda    Depth (inches): Hydric Soll Present? Yes No  Remarks:	Sandy R	ledox (S5)		•	• ,						
3  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.    Restrictive Layer (if observed):   Type:   以     \nabla     \nabla     Depth (inches):   Hydric Soll Present? Yes   No       Remarks:			MI DA 4401	<b>&gt;</b> \			•				2)
Restrictive Layer (if observed): Type:(\( \lambda \)   \( \lambda \) Depth (inches):	Daik Gui	riaco (Or) (Erick II)	TIMENUT 1401	<b>-</b> ) .				011101	(mylphani ii)	,,	i
Type: NI IN Depth (inches): Hydric Soil Present? Yes No	<u></u>			etland hydrology mus	st be pres	ent, unles	s disturbed	or problemati	C		
Depth (inches): No Remarks:	1		•								
Remarks:	1		,					Hydric Sol	Present?	Yes X	No
		5,100 <u>7</u>						]			
										•	
				•							
				•							
	,										•
											*
					•						
						•					

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: Chautauqua County \_ Sampling Date: (0 | 10 | 1 (o Project/Site: Ball Hill Wind Project Applicant/Owner: Ball Hill Wind Energy, LLC State: NY Sampling Point: DP- 775 Town of Hanover Investigator(s): Ben Virty and Mark Dith Section, Township, Range:\_\_\_\_ Local relief (concave, convex, none): CONUCX Slope (%): 5-102 Landform (hillslope, terrace, etc.). hillslope Subregion (LRR or MLRA); LRR-R Lat: 47.489858 Long: 79.1505612 Datum: NAD 83 Soll Map Unit Name: NIGA - Niggra 511+ loam, O-325lyxx, lugny Substatum NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No\_\_\_\_\_ No\_\_\_ Are Vegetation <u>No</u>, Soil <u>No</u>, or Hydrology <u>No</u> significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation No., Soil No., or Hydrology No naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Yes \_\_\_\_ No X Hydrophytic Vegetation Present? Yes \_\_\_\_ No X within a Wetland? Yes \_\_\_\_ No X Hydric Soll Present? Wetland Hydrology Present? \_ No X If yes, optional Wetland Site ID:\_\_\_\_ Remarks: (Explain alternative procedures here or in a separate report.) do point to wexland AWYI. On a hillslope leading down **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Surface Water (A1) \_\_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Mari Deposits (B15) \_\_\_ Saturation (A3) \_\_\_ Crayfish Burrows (C8) \_\_\_ Hydrogen Suifide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_\_ Sediment Deposits (B2) \_\_\_ Stunted or Stressed Plants (D1) \_\_\_ Presence of Reduced Iron (C4) \_\_\_ Drift Deposits (B3) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) \_\_\_ Algal Mat or Crust (B4) Shallow Aquitard (D3) \_\_\_ Thin Muck Surface (C7) \_\_\_ Iron Deposits (B5) \_\_\_ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) \_\_\_ Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) \_ Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_ No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

		·····		
Tree Stratum (Plot size: 30 R)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
		1.	FACW	Number of Dominant Species
1. Fraviour pennsylvanica	2	<del></del>	<u> </u>	That Are OBL, FACW, or FAC:(A)
2. Acer Sacchorum	38		FACU	Total Number of Dominant
3				Species Across All Strata:(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 20% (A/B)
6	<del>-                                    </del>			
0	<del></del>	<del></del>		Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
	40	= Total Cove	ər	OBL species x1=
Sapling/Shrub Stratum (Plot size: \5' R			*.	FACW species x 2 =
1. Lonicera taytarica	Su	<b>y</b>	FACU	FAC species x 3 =
				FACU species x 4 =
2	<del></del> .	<del></del>		UPL species x 5 =
3				Column Totals: (A) (B)
4				(b)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators;
7				1 - Rapid Test for Hydrophytic Vegetation
	50	= Total Cove	). 	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5' R )				3 - Prevalence Index is ≤3.0¹
1. Solidago Caradenni-	35	.Υ	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Lonicera tartarica	50	Y	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
3. Toxicaden dron radicans	10		FAL	
	5	151		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Fragaria Virginiana		<u>N</u>		be present, unless disturbed or problematic.
5. Prithenocissus quinquefolia	5	<u> </u>	FACU	Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7			<del></del> -	at breast height (DBH), regardless of height.
8				Sapling/shrub Woody plants less than 3 in, DBH
			<del></del>	and greater than or equal to 3,28 ft (1 m) tall.
9	<del></del>		<del></del>	Treate All bedeen Comment and the A
10				Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines - All woody vines greater than 3.28 ft in height.
	100	= Total Cove		A Same
Woody Vine Stratum (Plot size: 34 尺)				
		•	•	
1. Not Applicable				
2			-	Hydrophytic Vegetation
3	-			Present? Yes No Yes
4				
	4	= Total Cove	\r	
Remarks: (Include photo numbers here or on a separate s	,	- TOTAL COVE	31	
remainer (modes prior familiaris here of off a separate s	311001.7			
				·
				·

Profile Desc	ription: (Describe t	o the dep	th needed to docum	nent the i	ndicator	or confirm	the absence of l	ndicators.)	
Depth (Inches)	Matrix Color (moist)	<del>~~~</del>	Redo Color (moist)	x Feature: %	<u>Type</u> 1	Loc <sup>2</sup>	Texture	Remarks	,
(Inches) () ~ 8	104R43	100	COIOI (IIIOISI)		_1 <b>\</b> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		SIL		
8-26	2.57 5/6	75	2.51 4/3	5	0	m	<u> </u>		
2-00	213110	45	2.54 4/2	-16	0	M			
	,				<u></u>				
	,		104R 5/4	10		<u>M</u>			
		·							
<del></del>									
							. <u></u>		
<sup>1</sup> Type: C=C	oncentration, D=Dep	etion. RM	=Reduced Matrix. M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=N	Matrix.
Hydric Soil							Indicators for	Problematic Hydr	ic Solls³:
Histosol			Polyvalue Belo		(S8) ( <b>LR</b>	R R,		k (A10) (L <b>RR K, L,</b> tirle Redox (A16) (L	
	pipedon (A2) istic (A3)		MLRA 149B Thin Dark Surf		LRR R, M	LRA 149E		ky Peat or Peat (S3	
Hydroge	en Sulfide (A4)		Loamy Mucky	Mineral (F	1) (LRR I		Dark Surf	ace (S7) (LRR K, L	
	d Layers (A5) d Below Dark Surfac	۵11۱ م	Loamy Gleyed Depleted Matri		2)			Below Surface (S8 Surface (S9) (LRR	
	ark Surface (A12)	o (A11)	Redox Dark St		i) .	•	Iron-Mang	ganese Masses (F1	2) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark			•		: Floodplain Soils (F odic (TA6) ( <b>MLRA</b> 1	
	Gleyed Matrix (S4) Redox (S5)		Redox Depres	sions (Fo	)		Red Pare	nt Material (F21)	
	i Matrix (S6)							llow Dark Surface (	TF12)
Dark Su	ırface (S7) ( <b>LRR R, I</b>	/ILRA 149	<b>B</b> )				Other (Ex	plain in Remarks)	
<sup>3</sup> Indicators o	of hydrophytic vegeta	tion and w	etland hydrology mu	st be pre	sent, unles	s disturbe	d or problematic.		
	Layer (If observed):								
Type:			•				Hydric Soil Pr	resent? Yes	No X
Depth (in Remarks:	icnes):	· · · · · · · · · · · · · · · · · · ·	_	<del></del>	<del> </del>		Tiyuno con 1		- 117
T CHIAITO									
									•
ĺ.									
,									
	-								
		;			•				

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

WW for I had all the part of the last of t	
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 612116
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- + + +
BYLOTS IT SULLO	Section Township, Range: Town of Homover
Landen we (billatone toward ato): Hill State 6	ocal relief (concave, convex, none): Oncove Slope (%): O70
androrm (missope, terrace, etc.). The second of 47.490	936 29 Long: -79, 15 36755 Datum: NAD 83
Subregion (LRK of MLKA): Lat. 127	NWI classification: Leterd
Soil Map Unit Name: Noggres S. 1718am 10-78 3	(If no explain in Remarks )
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes 7 No (If No, explain in Normands.)
Are Vegetation <u>ゎヮ</u> , Soil <u>ゎヮ</u> , or Hydrology <u>ゎヮ</u> significant	
Are Vegetation <u>へ</u> る , Soil <u>ゐる</u> , or Hydrology <u>ゐる</u> naturally p	
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area within a Wetland? Yes K
Hydric Soil Present? Yes ★ No	
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: West and FA643
Remarks: (Explain alternative procedures here or in a separate rep	port.)
Pen Och Station f	ior western Abhs.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	(y) Surface Soil Cracks (B6)
Surface Water (A1)   Water-Staine	ed Leaves (B9) Yalinage Patterns (B10)
High Water Table (A2) Aquatic Faul	na (B13) Moss Trim Lines (B16)
Saturation (A3) Marl Deposit	its (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen St	ulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rh	nizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of	Reduced Iron (C4)  Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	THE ASSESSMENT OF THE PARTIES (DA)
management vicinity	ain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	PAC-Yeuliai 1651 (50)
Field Observations:	
Surface Water Present? Yes No X Depth (Inch	
Water Table Present? Yes No _X _ Depth (Inch	
Saturation Present? Yes No Monday Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pl	
Describe Recorded Data (stream gauge, monitoring well, aerial pr	Hotos, provided inspections, it assumes
Remarks:	
e the second	

**VEGETATION** – Use scientific names of plants.

Sampling Point: DP- 777

Tree Stratum (Plot size: 30)	Absolute	Dominant Indicator Species? Status	Dominance Test worksheet:
1. DOT PROVICEDLE			Number of Dominant Species
i ·			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
5			That Are OBL, FACW, or FAC: (A/B)
6	<del></del>	<del></del>	Prevalence Index worksheet:
7	<del></del>		Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \(\sigma'\)		· · · · · · · · · · · · · · · · · · ·	FACW species x 2 =
1. not Applicable	<u></u>		FAC species x 3 =
2			FACU species x 4 =
3		· · · · · · · · · · · · · · · · · · ·	UPL species x 5 =
4			Column Totals: (A) (B)
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
	_ 0	= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')			3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Impatiens copensis	80	Ves FACE	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Eupotorium perfolictum	10	NO PACH	Problematic Hydrophytic Vegetation¹ (Explain)
3. Zustrania gaminifolia	10		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4.		A.	be present, unless disturbed or problematic.
5.	,		Definitions of Vegetation Strata:
6			
7			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		•	Sapling/shrub Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tail.
9			Herb - All herbaceous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11			Woody vines – All woody vines greater than 3.28 ft in
12			height.
·	100 :	= Total Cover	
Woody Vine Stratum (Plot size:)			
1. NOT applicable			
2			Hydrophytic Vegetation
3			Present? Yes No No
4			
		= Total Cover	
Remarks: (Include photo numbers here or on a separate s	heet.)		I
•			

Lione Desc	intrott: (Describe	10 1110 40	pth needed to docu	ment the	Hulcator	or commi	tue abseirce	or maioato	13.7	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	S Type <sup>1</sup>	_Loc²	Texture		Remarks	
0"-8"	2.59412	90	54R 516	10	c		SIL			
B"-16"	2.54411	ტბ	2.59412	10	٥	m	SIL			
			5412516	10	د	~				-
					,					
		· ———				****				
			· · · · · · · · · · · · · · · · · · ·							
						•·····································				
		· ••••						<del></del>		,
1Type: C=C	oncentration D=Den	letion. RM	I=Reduced Matrix, M	S=Maske	Sand Gr	ains.	<sup>2</sup> Location	: PL=Pore	Lining, M=Mat	rix.
Hydric Soil		10.1011, 1 1.1					Indicators	for Proble	matic Hydric S	Solls³:
Histosol			Polyvalue Belo		(S8) ( <b>LR</b>	RR,			(LRR K, L, ML ox (A16) (LRR	
	pipedon (A2) istic (A3)		Thin Dark Surf		LRR R, M	LRA 149B	) 5 cm f	Jucky Peat	or Peat (S3) (L	.RR K, L, R)
	en Sulfide (A4)	·	Loamy Mucky Loamy Gleyed			(, <b>L</b> )			(LRR K, L, M) Surface (S8) (L	
	d Layers (A5) d Below Dark Surfac	e (A11)	Loanly Gleyed Depleted Matri		4)		Thin C	ark Surface	(S9) (LRR K,	L)
	ark Surface (A12)		Redox Dark S	-	) .				/lasses (F12) (	
			Danistad Danis	· Courtean /	にプト		Piedm	ont Floodol	ain Soils (F19).	(MLRA 149B)
	Mucky Mineral (S1) Bleyed Matrix (S4)		Depleted Dark Redox Depres				Mesic	Spodic (TA	ain Soils (F19) 6) ( <b>MLRA 144</b> /	
Sandy C Sandy F	Gleyed Matrix (S4) Redox (S5)						Mesic Red P	Spodic (TA arent Mater	6) ( <b>MLRA 144</b> / ial (F21)	A, 145, 149B)
Sandy C Sandy F Stripped	Gleyed Matrix (S4)	MLRA 149	Redox Depres				Mesic Red P Very S	Spodic (TA arent Mater	6) ( <b>MLRA 144</b> / ial (F21) k Surface (TF1	A, 145, 149B)
Sandy C Sandy F Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I		Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dar (Explain in	6) ( <b>MLRA 144</b> / ial (F21) k Surface (TF1	A, 145, 149B)
Sandy C Sandy F Stripped Dark Su  Indicators of	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dar (Explain in	6) ( <b>MLRA 144</b> / ial (F21) k Surface (TF1	A, 145, 149B)
Sandy C Sandy F Stripped Dark Su  Indicators of Restrictive Type:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dar (Explain in	6) ( <b>MLRA 144</b> / ial (F21) k Surface (TF1	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  Indicators of Restrictive Type:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)
Sandy C Sandy F Stripped Dark Su  3Indicators of Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	ition and v	Redox Depres	sions (F8)		s disturbed	Mesic Red P Very S Other	Spodic (TA arent Mater Shallow Dari (Explain in c.	6) (MLRA 144, ial (F21) k Surface (TF1 Remarks)	<b>A, 145, 149B</b> ) 2)

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Ball Hill Wind Pr	oject	City/County: Chaut	auqua County State: NY	Sampling Date: 6 2 Sampling Point: DP-	طا <u>ا</u> 778
Applicant/Owner: Ball Hill Win	a Energy, LLC				
Landform (hillslope, terrace, etc.):	Jeremy Scholer: Hillstope Loc R-R Lat: 42,4994	cal relief (concave, co	onyex, none): <u>60-2044</u> ong: <u>-79.1538</u> 0	Slope (%): SOB Datum:_NAD	
Soil Map Unit Name: 📉 🗀 🥰	crasilt Loan 10 to	2 200 2100a	1 NVVI Classi	ilication.	
Are climatic / hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	(If no, explain in	Remarks.)	
Are Vegetation NO , Soil No	_, or Hydrology <u>~ o</u> significantly	disturbed? Are	e "Normal Circumstances"	" present? Yes <u>K</u> No	
	O, or Hydrology NO naturally pro		needed, explain any ansv	vers in Remarks.)	
_	S – Attach site map showing				, etc.
Hydrophytic Vegetation Present	t? Yes No X	is the Sampl	ed Area	No ×	
Hydric Soil Present?	YesNo ×	16	-I Welland Sita ID:		
Wetland Hydrology Present?			al Wetland Site ID:		
Remarks: (Explain alternative p	procedures here or in a separate repo	и <b>с)</b>	•		
hPland	Octa Point fo	r Wetland	1 A643.		
		•	•		
HYDROLOGY				4 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	ulrod\
Wetland Hydrology Indicators	s:			licators (minimum of two requ	THEOT
Primary Indicators (minimum of	f one is required; check all that apply)			oil Cracks (B6)	
Surface Water (A1)	Water-Stained	Leaves (B9)		Patterns (B10)	
High Water Table (A2)	Aquatic Fauna	(B13)		n Lines (B16)	- 1
Saturation (A3)	Marl Deposits			on Water Table (C2)	1
Water Marks (B1)	Hydrogen Sulf			Burrows (C8)	201
Sediment Deposits (B2)		ospheres on Living R		n Visible on Aerial Imagery (C	(65
Drift Deposits (B3)	Presence of R			r Stressed Plants (D1)	
Algal Mat or Crust (B4)		eduction in Tilled Soi		hic Position (D2)	
Iron Deposits (B5)	Thin Muck Su		Shallow A		
Inundation Visible on Aeria		n in Remarks)		ographic Relief (D4)	ļ
Sparsely Vegetated Conca	ave Surface (B8)		FAC-Neu	trai Test (D5)	
Field Observations:					.
Surface Water Present?	Yes No _ K Depth (inche				
Water Table Present?	Yes No _X_ Depth (inche	1		de Maria Ne (	
Saturation Present? (includes capillary fringe)	Yes No <u>X</u> Depth (inche am gauge, monitoring well, aerial pho	1	Wetland Hydrology Pre	esent? Yes No _	
Describe Recorded Data (stream	am gauge, monitoring wen, aenai prio	21 Fr - 11 a m - 11 a a a			İ
		•			
Remarks:					
			•		
	and the selection of th				
				•	
	•			•	
		,			
1					

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1. Acer saccharum		Yes FACE	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Carya ovata			
3			Total Number of Dominant Species Across All Strata: (B)
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: 33%, (A/B)
1			
7	<del></del>		Prevalence index worksheet:
	65		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')	<u> </u>	= Total Cover	OBL species
	· C.		FAC species 10 x3 = 30
1. Acer Saccharum		YES PACE	FACU species 90 x4= 360
2	•		UPL species C x 5 = C
3			Column Totals: 105 (A) 400 (B)
4	<del></del>		
5			Prevalence Index = B/A = 5.81
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
	15	= Total Cover	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3,0 <sup>1</sup>
Herb Stratum (Plot size: 5')			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Podophyllum neltatum	10	Yes FACL	data in Remarks or on a separate sheet)
2. Enthamin graminitalia	10	Yes FAC	Problematic Hydrophytic Vegetation¹ (Explain)
3. Fraxinus Pennsylvenica			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4	-	<u> </u>	be present, unless disturbed or problematic.
5		Mining Bart.	Definitions of Vegetation Strata:
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8			Sapling/shrub – Woody plants less than 3 in. DBH
9		***	and greater than or equal to 3.28 ft (1 m) tall.
10			Herb - All herbaceous (non-woody) plants, regardless of
11			size, and woody plants less than 3.28 ft tall.
12.			Woody vines - All woody vines greater than 3.28 ft in
	25	= Total Cover	height.
Woody Vine Stratum (Plot size: 30')		- 10tal 00161	
1. NOT APPLICABLE			
2.		<del></del>	Hydrophytic
3			Vegetation Present? Yes No
A.	-		10301111 103
	0 :	= Total Cover	
Remarks: (Include photo numbers here or on a separate s		- Total Cover	
Transmitter (mentate priore frame of on a departate of	3,1001.,		

Lioure pescribuou: (pescribe to me di	epth needed to document the indicator or con	IIIII riia anzairea oi mercaroia-l
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
(inches) Color (moist) % 0"-8" 7.5/5)3 )60	Color (moist) % Type Loc	ST.
	2 F2 . C11	STL
81-20" Z.54613 80	2.54 516 20	J1.C
<sup>1</sup> Type: C=Concentration, D=Depletion, R Hydric Soil Indicators:	M=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 14 Loamy Mucky Mineral (F1) (LRR K, L)	49B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Middle Matrix (S4)	Redox Depressions (F8)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)		Red Parent Material (F21)
Stripped Matrix (S6)	19B)	Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14	l9B) wetland hydrology must be present, unless distu	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14  3Indicators of hydrophytic vegetation and		Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14   3Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: Depth (inches):		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14		Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  rbed or problematic.

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region \_\_\_\_\_ City/County: Chautauqua County Sampling Date: 6121116 Project/Site: Ball Hill Wind Project \_ Sampling Point: DP- 779 Applicant/Owner: Ball Hill Wind Energy, LLC State: J. Scider Section, Township, Range: Town of Hurover Investigator(s): B. Viars Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): O% Datum: NAD 83 Lat: 42.5638697 Long: -79.1528564 Subregion (LRR or MLRA): LRR-R Soil Map Unit Name: Nicacra S: 1+ 100m 10 +03% Slopes NWI classification:\_\_\_ Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No\_\_\_\_ Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation NO, Soil NO, or Hydrology NO naturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. is the Sampled Area Yes X No Hydrophytic Vegetation Present? within a Wetland? Yes 😕 No Hydric Soil Present? If yes, optional Wetland Site ID: Wetland Yes X No Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) PRO Data Point. **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) ✓ Drainage Patterns (B10) X Water-Stained Leaves (B9) \_\_\_ Surface Water (A1) \_\_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) \_\_\_ High Water Table (A2) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Marl Deposits (B15) \_\_\_ Saturation (A3) Crayfish Burrows (C8) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) X Algal Mat or Crust (B4) Shallow Aquitard (D3) Thin Muck Surface (C7) \_\_\_ Iron Deposits (B5) \_ Microtopographic Relief (D4) \_\_\_ Other (Explain in Remarks) \_\_\_ Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes \_\_\_\_ No \_\_\_ Depth (inches): Surface Water Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_ No \_\_\_\_ Yes \_\_\_\_ No \_\_\_ Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute		Indicator	Dominance Test worksheet:
	35	r <u>Species?</u> ソセミ	FAC	Number of Dominant Species That Are ORL FACILY or FACILY
2. Froxing Pensylvaica			FACE	That Are OBL, FACW, or FAC: (A)
3. Tsuga Concodersis			FACL	Total Number of Dominant Species Across All Strata; (B)
			1120	
4	<del></del>	•	·	Percent of Dominant Species That Are OBL, FACW, or FAC: 29% (A/B)
5				That to obt, thow, of the (AB)
6	<del></del>			Prevalence Index worksheet:
7		·	- '	Total % Cover of: Multiply by:
	<u>60</u>	_ = Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 16')				FACW species x 2 =
1. Her Inbrum		Yes	FAL	FAC species x 3 =
2. Fragines porsylvinia		Yes	PACU	FACU species x 4 =
3. TSuga conodersis			FACE	UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6		***************************************		Hydrophytic Vegetation Indicators:
7		***************************************		1 - Rapid Test for Hydrophytic Vegetation
	20	- T-1-1 O-		2 - Dominance Test is >50%
Herb Stratum (Plot size:)		_ = Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Toxicoderdon Radicars	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Impations expensis		Yes	FACUL	Problematic Hydrophytic Vegetation¹ (Explain)
3. CARRY Intumescens		105	FREW	
		ar j	<u>912w</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Vegetation Strata:
6				
6	1.1			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8				Sapling/shrub Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11		-		Woody vines – All woody vines greater than 3.28 ft in
12			<u> </u>	height.
- <i>t</i>	40	= Total Cov	er	
Woody Vine Stratum (Plot size: 30')				
1. Smilax rotundifolia	10	Yes	FAL	
2		· · · · · · · · · · · · · · · · · · ·	-	Hydrophytic Vegetation
3		·		Present? Yes No No
4				·
	(0	= Total Cov	er	
Remarks: (Include photo numbers here or on a separate		70.00	<del></del>	
,				

	intion: (Describe	to the deb	tn needed to docum	ient the ir	dicator	or contirm	the absence of	illaioatoio	1.1	
Depth (inches)	Matrix Color (moist)	<del>~~~</del>	Color (moist)	x Features %	Type <sup>1</sup>	_Loc²	Texture		Remarks	
O"-1"	2.59311		Octor (motor)				8.≖			
2"-14"			7.542 516	25%		<b>~</b>				
2-14	2,37 6/	3376	<u>GE</u>		<u> </u>					
		<u> </u>						······································		
				<del></del>						
					<del>`</del>					
			-	<del></del>				····		
								· · · · · · · · · · · · · · · · · · ·	····	
										<del></del>
										·
¹Type: C=Ce	oncentration, D=Dep	letion, RM:	=Reduced Matrix, MS	======================================	Sand Gr	ains.	<sup>2</sup> Location: 1	PL=Pore Li	ning, M=Matr	ix.
Hydric Soil							Indicators fo			
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	RR,			RR K, L, MLI ((A16) (LRR	
	oipedon (A2) istic (A3)		MLRA 149B		.RR R, M	LRA 149B)			Peat (S3) (L	
Hydroge	en Sulfide (A4)		Loamy Mucky f	Mineral (F1	) (LRR I		Dark Sur		LRR K, L, M)	
	d Layers (A5) d Below Dark Surfac	o (Δ11)	Loamy Gleyed Depleted Matrix		)				irface (S8) ( <b>L</b> l S9) ( <b>LRR K,</b> l	
	ark Surface (A12)	υ (ΛΙΙ)	Redox Dark Su							RR K, L, R)
				indoo (i o)						
Sandy N	lucky Mineral (S1)		Depleted Dark	Surface (F			Piedmon	t Floodplai	n Soils (F19)	(MLRA 149B) A. 145. 149B)
Sandy N	Mucky Mineral (S1) Bleyed Matrix (S4)			Surface (F			Piedmon Mesic Sp Red Pare	t Floodplai odic (TA6) ent Materia	n Soils (F19) ) ( <b>MLRA 144/</b> Il (F21)	A, 145, 149B)
Sandy N Sandy S Sandy F Stripped	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6)		Depleted Dark Redox Depress	Surface (F			Piedmon Mesic Sp Red Pard Very Sha	t Floodplai oodic (TA6) ent Materia illow Dark	n Soils (F19) ) ( <b>MLRA 144</b> 4 Il (F21) Surface (TF12	A, 145, 149B)
Sandy N Sandy S Sandy F Stripped	Mucky Mineral (S1) Bleyed Matrix (S4) Redox (S5)	VILRA 149	Depleted Dark Redox Depress	Surface (F		•	Piedmon Mesic Sp Red Pard Very Sha	t Floodplai odic (TA6) ent Materia	n Soils (F19) ) ( <b>MLRA 144</b> 4 Il (F21) Surface (TF12	A, 145, 149B)
Sandy N Sandy O Sandy F Stripped Dark Su	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6)		Depleted Dark Redox Depress	Surface (F sions (F8)	7)	ss disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai oodic (TA6) ent Materia illow Dark	n Soils (F19) ) ( <b>MLRA 144</b> 4 Il (F21) Surface (TF12	A, 145, 149B)
Sandy N Sandy P Sandy P Stripped Dark Su  Indicators of	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai oodic (TA6) ent Materia illow Dark	n Soils (F19) ) ( <b>MLRA 144</b> 4 Il (F21) Surface (TF12	A, 145, 149B)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type:	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	es disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type:	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	es disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy F Sandy F Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	s disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)
Sandy N Sandy P Sandy P Stripped Dark Su  Indicators of Restrictive Type: Depth (in	Mucky Mineral (S1) Bieyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR R, I If hydrophytic vegeta Layer (If observed)	tion and w	Depleted Dark Redox Depress	Surface (F sions (F8)	7)	es disturbed	Piedmon Mesic Sp Red Pare Very Sha Other (E	t Floodplai odic (TA6) ent Materia illow Dark xplain in R	n Soils (F19) ) ( <b>MLRA 1444</b> Il (F21) Surface (TF1: emarks)	2)

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 6/2/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 780
Investigatorial R. Vince T School	Section, Township, Range: Down of Harover
Law dearns (hillstone torroom ato): Hillstone	ocal relief (concave, convex, none): Convex Slope (%):
Catalonia (Indianope, torrace) stay.	4066 Long: -79,153 1048, Datum: NAD 83
Subregion (LRR or MLRA).	to 3 % Slapes NWI classification: UPland
Soil Map Unit Name: 11103ct a 5113 10cm, 6	15 3 70 37 No. (If no explain in Remarks )
Are climatic / hydrologic conditions on the site typical for this time of y	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation <u>ND</u> , Soil <u>ND</u> , or Hydrology <u>ND</u> significanti	
Are Vegetation NO, Soil NO, or Hydrology NO naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No K	Is the Sampled Area
Hydric Soil Present?  Yes No X	within a Wetland? Yes No ×
Wetland Hydrology Present? Yes No >	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	
upland Data point for	
what both point for	Datiare 13011
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	v) Surface Soil Cracks (B6)
Surface Water (A1) Water-Staine	ed Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Faur	ma (B13) Moss Trim Lines (B16)
Saturation (A3) Marl Deposit	s (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Su	
Sediment Deposits (B2) Oxidized Rhi	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)  Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck S	11 D # (/DA)
mandador violeta en la companya en l	in in Remarks) Microtopographic Relief (U4) FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Field Observations:	
Surface Water Present? Yes No _X Depth (inch	nes):
Water Table Present? Yes No X Depth (Inch	nas)·
Saturation Present? Yes No > Depth (inch	1 N N N N N
(Includes espillary frings)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	10tos, previous inspections), ii avaliable.
Remarks:	
.· ' vi.	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de

2 (	Absolute	Dominant Indic	ator
Tree Stratum (Plot size: 36')		r Species? Sta	Dominance Test worksheet:  Number of Dominant Species
1. Acer Saccherum		YES FAC	That Are OBL, FACW, or FAC: (A)
2. Penns Sentina	20	YES FA	ch _
3			Total Number of Dominant Species Across All Strata:  (B)
4			
		· ————	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6			Prevalence index worksheet:
7	-	- <del></del>	Total % Cover of: Multiply by:
	100	_ = Total Cover	OBL species
Sapling/Shrub Stratum (Plot size: 15')		$(T_{i,j})^{-1}(x,y) = x$	FACW species
1. Au Sacherum	3	yes fo	FAC species O x3 = O
		· <u> </u>	FACU species 160 x4= 640
2			IIPI eneries o v5= C
3		·	Column Totals: 160 (A) 610 (B)
4			
5			Prevalence Index = B/A = 4.0
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5′)		_ = Total Cover	3 - Prevalence Index is ≤3.01
	-		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Podophyllum peltatum	20	Yes FA	
2			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
5			
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7			
8			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		· · · · · · · · · · · · · · · · · · ·	and greater that or equal to 5.25 ft (1 fil) tall.
10			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			
12			Woody vines - All woody vines greater than 3.28 ft in
	7		height.
Woody Vine Stratum (Plot size: ろみ')	20	= Total Cover	
		* . * .	
1. Vitus aestivalis	<u>lo</u>	YOS FA	
2	-		Hydrophytic Vegetation
3			Present? Yes No No
4			
	10	= Total Cover	
Remarks: (Include photo numbers here or on a separate s		10tai 0076i	
romand. (moduo prioto fidribers fiere of off a separate s	51100t. <i>)</i>		

	ription: (Describe to the	debut useded to docum	ent the mulcator or	contirm u	ue abseitce of mate	1.0.0.7
Depth	<u>Matrix</u>	Redox	Features Turns 1	L = - <sup>2</sup>	Texture	Remarks
(inches)	_	Color (moist)		LOC _	ST.	Kemano
0"-("	7.5y312_				SIE	
1"-7"	~					
7"07"	10gRulb				<u>St.C</u>	
			·			
				_		
,						
·						
				<del></del>		
	oncentration, D=Depletion,	RM=Reduced Matrix, MS	S=Masked Sand Grai	ns.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix. Ilematic Hydric Soils³:
Hydric Soil I		Polyagija Ralo	v Surface (S8) (LRR	R		0) (LRR K, L, MLRA 149B)
Histosol Histic Er	oipedon (A2)	MLRA 149B		11,	Coast Prairie R	edox (A16) (LRR K, L, R)
Black Hi	stic (A3)		ce (S9) (LRR R, MLI			at or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)	Loamy Mucky N Loamy Gleyed	Mineral (F1) (LRR K,	L)		87) (LRR K, L, M) w Surface (S8) (LRR K, L)
	d Below Dark Surface (A11				Thin Dark Surfa	ace (S9) (LRR K, L)
	ark Surface (A12)	Redox Dark Su				e Masses (F12) (LRR K, L, R) Iplain Solls (F19) (MLRA 149B)
	fucky Mineral (S1) Bleyed Matrix (S4)	Depleted Dark Redox Depress				TA6) (MLRA 144A, 145, 149B)
	tedox (S5)		, ,		Red Parent Ma	terial (F21)
	Matrix (S6)	4400)	• .		Very Shallow L	eark Surface (TF12)
Dark Su	rface (S7) (LRR R, MLRA	1480)			Otto: (	,
	f hydrophytic vegetation ar	nd wetland hydrology mus	t be present, unless	disturbed o	or problematic.	
	Layer (if observed):					
Type: Depth (in	chas):	<del></del>			Hydric Soil Presen	1? Yes No <u>×</u>
Remarks:	01100)					
						·
ļ						•
,						
,						
,						

	FORM Northcentral and Northeast Region
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 7/15 10
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 183
Investigatoris): Ben Virty and Nicole Dutcher	Section, Township, Range: Town of Hanover
Landform (hillstone, terrace, etc.): de Ortsis in Loc	cal relief (concave, convex, none): Con (Qvc Slope (%): O-27
Subregion (LRR or MLRA): LRR-R Lat: 42,448	42 6 Long: -19.12.40.12 Datum: NAD 83
Soil Map Unit Name: Fremont Silt Loam, 3-82	Slopes NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No X (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly	
Are Vegetation N, Soil N, or Hydrology N naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes X No Yes X No No	Is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID: Wetland AU45
Remarks: (Explain alternative procedures here or in a separate repo	rt.)
•	ALOUS - PEM wettend in Forest w
no trees mosted in wetland.	
Region has experience of below	average rainfull For year to close
HYDROLOGY	V
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)   Water-Stained	
High Water Table (A2) Aquatic Fauna	
Saturation (A3) Marl Deposits	(B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulf	ide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhize	ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	leduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron R	eduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Sur	rface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain	n in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes NoX Depth (inches	
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No _X Depth (inche (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), il avaliable.
Remarks:	
Evidence of water-stained leaves and	diairage patterns bund throughout the
Wetland, No Saturation / Water table /	surface water observed due to the region
receiving below average rainfall	year to -date (Nys DEC annunced 7/15/14
drought warning).	
. J.	

- 1-1	Absolute	Dominant	Indicator	Bankana Taskanalahari
Tree Stratum (Plot size:)	% Cover			Dominance Test worksheet:
1. Not Applicable				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 1002 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	Ü	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: \C')				FACW species x 2 =
,				FAC species x3 =
1. Not Applicable				· · · · · · · · · · · · · · · · · · ·
2				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	~			∠ 2 - Dominance Test is >50%
-1	<u>_v</u>	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5'				
1. Onoclea sansibilis	80	Y	FALCW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Carex flava	5	N	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex 779va		10	000	Problematic Hydrophytic Vegetation (Explain)
3			-	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb - All herbaceous (non-woody) plants, regardless of
10		<del></del>		size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines - All woody vines greater than 3.28 ft in height.
	85	= Total Cov		noight.
	<u> </u>	- Total Cov	өг	
Woody Vine Stratum (Plot size: 15')				
1. Not Applicable				
2				Hydrophytic
3				Vegetation
				11030IK1 163 / 140
4	<del></del>			
	<u> </u>	≃ Total Cov	er	
Remarks: (Include photo numbers here or on a separate	sheet.)		······································	
				•

SOIL								Sampling Point: D1-100
Profile Desc	ription: (Describe t	o the dep	th needed to docum	ent the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			Features		. 2		
(inches)	Color (moist)	<u> %</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	2.54 2.5/1	907.	54R414	10%		<u>M</u>	Sil	
4-12	2,54 5/2	952	7.54R4/6.	57,	C_	M		
12+								Rock/grave refural
			· · · · · · · · · · · · · · · · · · ·					1912
	<del></del>			<del></del>				
***************************************			<del></del>				·	
			<del></del>			<del></del>		
					<del></del>			
	oncentration, D=Deple	etion, RM	Reduced Matrix, MS	=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil I							Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Polyvalue Belov		(S8) ( <b>LRI</b>	R,		luck (A10) (LRR K, L, MLRA 149B)
	olpedon (A2)		MLRA 149B)			DA 440D)		Prairie Redox (A16) (LRR K, L, R)
Black His	n Sulfide (A4)	-	Thin Dark Surfa Loamy Mucky M					Mucky Peat or Peat (S3) (LRR K, L, R) surface (S7) (LRR K, L, M)
	Layers (A5)		Loamy Gleyed I	-		, <b>L</b> )		lue Below Surface (S8) (LRR K, L)
	Below Dark Surface	(A11)	Nepleted Matrix	(F3)	,			ark Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)		X Redox Dark Sui	face (F6)			Iron-M	anganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark S	•	7)			ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5) Matrix (S6)							arent Material (F21) hallow Dark Surface (TF12)
	rface (S7) (LRR R, M	LRA 149E	3)					(Explain in Remarks)
_ <del></del>	, , , , , , , , , , , , , , , , , , , ,		,					,
	hydrophytic vegetati	on and we	etland hydrology mus	t be prese	nt, unles	s disturbed	or problemation	o.
	ayer (if observed):							
Type:	NIA							$\checkmark$
Depth (inc	ches):						Hydric Soil	Present? Yes X No No
Remarks:								
S	oil demons	hater	a deplete	d mad	hix a	id red	ex of de	ark Surface in the
Cond	1111 1	_	`		<i>C</i> ,	$\cap$	1 /	1211/ 1.1
TI/SF	9 laye	K	ak and gro	incl n	fusal	tour	d at	12" (matripa pits
		_	$\wedge$	,	١			
Were	attempted	to 9	et turther	down	).			
		•	•					
,								

	A FORM - Moltificating and Moltificast Kegion
Project/Site: Ball Hill Wind Project	City/County: Chautauqua County Sampling Date: 7/5/16
Applicant/Owner: Ball Hill Wind Energy, LLC	State: NY Sampling Point: DP- 789
Investigator(s): Ben Virtx and Nicole Outher	Section, Township, Range: Town of Hanover
Landform (hillslope, terrace, etc.); hillslope Le	ocal relief (concave, convex, none): Slope (%): Slope
Subregion (LRR or MLRA); LRR-R Lat: 42, 44	18520 Long: -79,124059 Datum: NAD 83
Soil Man Unit Name: Frement Silt Joan 3-8%	Slopes NWI classification: Uplow
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes NoX (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significant	
Are Vegetation N, Soil N, or Hydrology N naturally p	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ≺	Is the Sampled Area within a Wetland? Yes No X
Hydric Soil Present? Yes No ×	
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	· · · · · · · · · · · · · · · · · · ·
Upland Soit data point for	Wettand HU45
Area has raceived below average drought warnings for all NYS	rainfail year-to-dote, NYS DEC announced on 7/15/16.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Water-Staine	
High Water Table (A2) Aquatic Faur	The state of the s
Saturation (A3) Marl Deposit Water Marks (B1) Hydrogen Su	ulfide Odor (C1) Crayfish Burrows (C8)
	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	· · ·
	ain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:  Surface Water Present?  Yes NoX Depth (inch	and the second s
7	
Water Table Present?  Yes No Depth (Inches)  Saturation Present?  Yes No Depth (Inches)	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pr	lotos, previous inspections), if available:
Remarks:	
No hydrology indicators Obse	erved.

Tree Stratum (Plot size: 30' R)	Absolute		1)Ominance lest worksheet
1. Isua Canadensis	80	Species? Start	Number of Dominant Species
- Facus acadifilis			That Are OBL, FACW, or FAC: (A)
2. Fagus grandifolia	<u> </u>		Total Number of Dominant
3			Species Across Ali Strata, (B)
4			
5	<del></del>	·	That Are OBL, FACW, or FAC: 05.55/ (A/B)
6		· ————————	Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	100	_ = Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15'R)			FACW species x 2 =
1. Fagus grandifolia	10	YFA	(CU   FAC species x 3 =
2			FACU species x 4 =
			UPL species x 5 =
3			Column Totals: (A) (B)
5			Description of Index D/A
6			1 - Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
0	10	_ = Total Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 10'R) 1. Athyrum angustium	10	V =	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Fagus gandípia			data in Remarks or on a separate sheet)  CO Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Oroclea Sensibilis			
			1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5	***		Definitions of Vegetation Strata:
6			Tree Woody plants 3 in. (7.6 cm) or more in diameter
7		· <del></del>	at breast height (DBH), regardless of height.
8			Sapling/shrub - Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall.
9			
10		·	size, and woody plants less than 3.28 ft tall.
11			Woody vines - All woody vines greater than 3.28 ft in
12		·	height.
	20	_ = Total Cover	· · · · · · · · · · · · · · · · · · ·
Woody Vine Stratum (Plot size: 30' K)			
1. Not Applicable			
2	***************************************		Hydrophytic Vegetation
3			Present? Yes No X
4			·
	_Ø_	_ = Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Profile Desc	ription: (Describe	o the dep	th needed to docum	ent the in	dicator o	or confirm t	he absence o	of Indicators.)
Depth	Matrix			Features	- 1	. 2	<b>T 4</b>	Domarko
(inches)	Color (moist) 107R314	1002	Color (moist)		I ype	Loc <sup>2</sup>	Texture	Remarks
0-2				<del></del> .			<u></u>	
2-20	2,54514	1602					<u></u>	
								:
	············				<del></del>			
	<del></del>				<del></del>			
				-				
			,			<del></del>		
		etion, RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I					00\			for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) hipedon (A2)		Polyvalue Belov MLRA 149B)		S8) (LRI	R,		luck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		RR R, M	LRA 149B)		lucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky M					urface (S7) (LRR K, L, M)
	Layers (A5)		Loamy Gleyed I					lue Below Surface (S8) (LRR K, L)
	l Below Dark Surface Irk Surface (A12)	e (A11)	Depleted Matrix Redox Dark Sur					ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark S		n .			ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depress	-	′			Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	edox (S5)							arent Material (F21)
	Matrix (S6)							hallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 149E	3)				Other (	(Explain in Remarks)
<sup>3</sup> Indicators of	hydrophytic vegetat	ion and we	tland hydrology mus	t be preser	nt, unies	s disturbed o	or problematic	s
Restrictive I	ayer (if observed):							
Type:	NA							· ×
Depth (inc	ches):						Hydric Soil	Present? Yes No X
Remarks:								
Λ/,	s hydra	SALL I	indicators v		s las e	السم		
	7,40,70	ו ווכצט	rorcados p	vere	0070	VEOI		
,								
								,
								!

APPENDIX B STREAM DATA FORMS



Project Name: Ball Hill Wind Project					
Stream Name:		Date: 11 /04/ 2015			
County: Chautauqua		State: New York			
Evaluator(s): DSC , USM		Data Point ID: DP-54			
Stream Character	istics	Bottom Characteristics			
Perceptible Flow [ yes [ ] no Flow Regime: Percential [ ] Interns Stream Flow Direction	Fort	Substrate Type:   Probed Street	esent): 12° 24" 36"		
Bank Height and	Slope	Associated Habitat	Size Class		
Left Bank*   0-3' High	7°) [ ] 38-45°) [ ] (7°) [ ] 45°) [ ] (45°) [ ] (45°) [ ]	Riparian Vegetation[x] yes [ ] no If yes, list: // / / / / / / / / / /  Aquatic Vegetation [ ] yes   \ no If yes, list:  Associated Wetland [ ] yes   \ no If yes, list   D:  Aquatic Organisms   [ ] yes [ ] no If yes, list: / / / / / / / / / / / / / / / / / / /	to lot north		

STREAM FIELD ID: 57-11



Stream Name:			Date: 11/05/2015	
County: Chantauqu	138		State: New York	
	JL , VJM		Data Point ID: DP-63	
	Stream Characteristics		Bottom Characteristics	
	rerennial [ ] Intermittent [ ]  from South to N  edge to water's edge) 2 4	556	Substrate Type:	esent): " 12" 24" 36"
52.505.50 - 20.1 to 2.2.50	Bank Height and Slope		Associated Habitat	Stze Class
Left Bank*	0-3' High 0-20% (0-11") 21 - 50% (12-27") 51 - 100% + (38-45") 100%+(46"+) 3-6' High 0-20% (0-11") 21 - 50% (12-27") 51 - 100% (38-45") 100% (46"+) 6' + High	Right Bank*	Riparian Vegetation [ ] yes [ ] no If yes, list:  Aquatic Vegetation [ ] yes [ ] no If yes, list:  Associated Wetland [X yes [ ] no If yes, list ID: [	Major >100 ft     Intermediate >10 ft < 100ft   Minor <10 ft
TO CONTRACTOR	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+) of any Evidence of Erosion	205504	Stream Photos Collected ID, Direct  Photos B1 12, 15  Photos B2 4,980  Photos B3 Joneste	Suith





tream Name;			Date: 11/05/2015			
County: Chautauqui			State: New York			
Evaluator(s):	72. V314		Data Point ID: 69			
	Stream Characteristics		Bottom Characteristics			
Stream Flow Directi Width (ft) (water's c	yes [ ] no erennial [ ] Intermittent [ ] on	101 15	Substrate Type: Probed Stree (if water pre	sent): 2" 24" 36"		
	Bank Height and Slope		Associated Habitat	Size Class		
Left Bank*	0-3' High 0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) 100%+(46°+) 3-6' High 0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+)	Right Bank*	Riparian Vegetation     yes     no If yes, list:  Associated Wetland     yes     no If yes, list:  Aquatic Organisms     yes     no If yes, list:	Major   >100 ft     Intermediate   >10 ft   <100ft		
	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+) of any Evidence of Erosion:		Stream Photos Collected ID, Direct  Ph. L. 98 Ph. L. R. S.  114 42 39 MARCON  11/210 90 Aunste	BEF WEST		

# STREAM FIELD ID: 57-14



Stream Name:		Date: 11/06/2015		
Sunty: Chautauqua		State: New York		
valuator(s):	JU, VJM		Data Point ID: DP - 7,2	1/10
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [X] yes [] no Flow Regime: [XPerennial [] Intermittent [] Ephemeral Stream Flow Direction		Substrate Type:    Probed Stream Depth (if water present):   Gravel   7 - 12*   13 - 24*     Sand   25 - 36*   37* #   Other   No Perceptible Depth		
	Bank Height and Stope		Associated Habitat	Size Class
Left Bank*	0-3 High  0-20% (0-11°)  21-50% (12-27°)  51-100% + (38-45°)  100% + (46°+)  3-6 High  0-20% (0-11°)  21-50% (12-27°)  51-100% (38-45°)  100% (46°+)	Pi I I I I I I I I I I I I I I I I I I I	Riparian Vegetation   yes   no If yes, list:  Associated Wetland   yes   no If yes, list:  Associated Wetland   yes   no If yes, list ID	Major   >100 ft     Intermediate   >10 ft, <100ft
	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+) of any Evidence of Grosions		Stream Photos Collected ID, Direct Photos 96 May hat	a lette en sauts

STREAM FIELD ID: DP-73/51-15



Stream Name:			Date: 11/6/15		
County: Chautauqui			State: New York		
Evaluator(s):	JT 75 70		Data Point ID: DX_73		
	Stream Characteristics		Bottom Characteristics		
Stream Flow Direction	ondet to water's edge)		Substrate Type: Probed Stream Depth (if water present):		
S. S. W. S. M. S. W. S.	Bank Height and Slope		Associated Habitat	Size Class	
Left Bank*	0-3' High 0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) 100%+(46°+) 3-6' High 0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+) 6'+ High 0-20% (0-11°)	Right Bank*	Riparian Vegetation[1] yes [ ] no If yes, list:  Aquatic Vegetation [1] yes [ ] no If yes, list:  Associated Wetland [1] yes [ ] no If yes, list ID:  Aquatic Organisms [1] yes [ ] no If yes, list:  Riparian/Terrestrial Organisms  A J yes [ ] no If yes, list:  T&E Species [ ] yes [ ] no If yes, list:	Major   > 100 ft.     Intermediate   > 10 ft, < 100ft   Minor   < 10 ft	
Provide Details	21 - 50% (12-27°) 51 - 100% (38-45°) = 100% (46°+) of any Evidence of Erosion		PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1 PH-99 Right to Lead 1	Sin a	





tream Name: U	nnamed Tributary		Date: 11/12/15			
ounty. Chautau	G#1		State: New York			
evaluator(s): $\rho \chi_{\nu}$	probeig 0. LOCKWOOD		Data Point ID: QD			
	Stream Characteristics		Bottom Characteristics			
Perceptible Flow [A] yes [ ] no Flow Regime: [A] Perennial [ ] Intermittent [ ] Ephemeral Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):     Bedrock       0 - 6"     7 - 12"				
	Bank Height and Slope		Associated Habitat	Size Class		
Left Bank*	0-3' High 0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) 100% + (46°+) 3-6' High 0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+) 6'+ High	Right Bank*	Riparian Vegetation [ ] yes [ ] no If yes, list:  Aquatic Vegetation [ ] yes [ ] no If yes, list:  Associated Wetland [ ] yes [ ] no If yes, list ID: W L - A 3  Aquatic Organisms [ ] yes [ ] no If yes, list:  Riparian/Terrestrial Organisms [ ] yes [ ] no If yes, list:  T&E Species [ ] yes [ ] no If yes, list:	Major >100 ft   Intermediate >10 ft, <100 ft   Minor <10 ft		
ALAC DESCRIPTION	0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+) Lof any Evidence of Enssion: <u>erosion on banks</u> (VOUS EXOS SING.		PHOTO 120 DS/  PHOTO 148 QTC/	/w E		

STREAM FIELD ID: 57-19



STORE STORES			at mecoality		
Stream Name:			Date: 1/1/2/20/5		
	sunty: Chautauqua		State: New York		
Evaluator(s):	UTS THE		Data Point ID: 1 P- 75		
	Stream Characteristics		Bottom Characteristics		
Perceptible Flow	La yes I I no		Substrate Type: Probed Stre	The state of the s	
Now Regime: [5]	Perennial [ ] Intermittent [ ]	Ephomeral	[ Bedrock (if water pro	4	
STATE OF SEA IN COLUMN			Cobble   1 7 - 1	24*	
tream Flow Direction East 1 1005			Sand [ ] 25 -		
Vidth (ft) (water's	edge to water's edge)			Perceptible Depth	
Width (ft) (bank to	o bank)5				
	Bank Height and Slope		Associated Habitat	Size Class	
Left Bank*		Right Bank*	Riparian Vegetation[ ] yes [2] no	[   Major >100 ft	
	0-3' High		If yes, list: A 1/1/1/pm, Joy 3-		
U	0 - 20% (0-11°)	11	Aquatic Vegetation [ ] yes [ ] no If yes, list:	Intermediate   >10 ft, <100ft	
11	21 - 50% (12-27°) 51 - 100% + (38-45°)	[]		Minor	
ii	100%+(46°+)	ii	Associated Wetland [ ] yes [ ] no If yes, list ID:	<10 ft	
	3-6' High		Aquatic Organisms [5] yes [ ] no If yes, list		
0.0	0 - 20% (0-11°)	11	CONTRACTOR CONTRACTOR CONTRACTOR		
11	21 - 50% (12-27°) 51 - 100% (38-45°)	48	Riparian/Terrestrial Organisms [/] yes [ ] no		
i i	100% (46°+)	(i	If yes, list: Callet Calletan		
	72. 6755535		T&E Species [ ] yes [c] no		
	6' + High		If yes, list:		
1)	0 - 20% (0-11°) 21 - 50% (12-27°)	- 1	Stream Photos Collected ID, Directi	on, and Description	
11	51 - 100% (38-45°)				
EX.	100% (46°+)	3.1	Hada DE Kight to	P. P. Proposition	
Provide Detail	of any Evidence of Erosion:		Hall to a return	west	
_ yeb ~	KOOL NORTH		- T		
			12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	Last.	



Stream Field ID: ST _	Gaool	EAH)		
Data Point ID: DP-	the second secon		5/20/16	
Project Name: Ball H	III Wind Pr	oject	The desired Control of the Control o	
	SIAOS		MEKENMEVER	
County: Chautaugua		1 1 1 1 1 1 1 1	State: NY	
Stream Name: N//A				
State Classified: Yes [ If Yes, Classific	√ No	Not	Applicable	
Lat: 42,417696		Long:	= 79.136744	
	Hydrologi	c Characte	eristics	
Flow Regime: Peren	inial	Intermitt	ent Ephermeral	
Surface Water:	Present		Absent	
Perceptible Flow:	Present		Absent ×	
Water Depth at Thalweg:			tted Perimeter Width: N/A	
Flow/Gradient Direction:	-	W		
Ge	omorphol	ogic Chara	cteristics	
Primary Substrate Class	38: 🖖	Cust De	md 1 2 21 - Deconders Co	08.Blo
	Wi	dth		
7-95-1W #707-07	at DP	Max		
OHWM [	a	3	1.	
Top of Bank	7.51	75"		
	Left	Right		
Bank Slope (H:V)	J.J.	121		
	Bank St	ability Sun	nmary	
Left Bank:		erroles)		
2000 2000	А	- , ,		
Right Bank:	Daw E	aroded		
_	Habitat	Character	istics	
Aquatic Vegetation Prese	ent: Denoved	Yes	× No	al
Aquatic Organisms Obse If Yes, Describe:		Yes	□ No 🗵	
Terrestrial Organisms Ob If Yes, Describe:	served:	Yes	□ No □	



Data Point ID: DP - 210 Riparian Characteristics Riparian Vegetation Description (0' to 150' from TOB): Right: P. sensulrand malus says sto- acto, Left: 9 Associated Wetland Present: No > Yes If Yes, Describe: No >< Associated Artificial Drain Present: Yes If Yes, ID: **Photos** Notes/Additional Description Direction Upstream Dowsnstream NW Cross Channel **Jurisdictional Connectivity Notes:** Supplemental Notes & Comments:



Stream Field ID:	5T-A2001	INT	
Data Point ID:	P- 2.10		5/05/16
	all Hill Wind Pr		
	5 75 100	and the same of th	BUCKENMEYER
County: Chautaug			State: NY
Stream Name:	1 Cr		Estative Zavers
	es No sification:		Applicable
Lat: 43 41708	-	Long:	79.137323
	Hydrolog	ic Characte	ristics
Flow Regime: P	erennial	Intermitte	ent Ephermeral
Surface Water:	Present	$\sim$	Absent
Perceptible Flow:	Present		Absent
Water Depth at Thal			tted Perimeter Width: 3
Flow/Gradient Direct	3070.00		
	Geomorphol	logic Chara	cteristics
Primary Substrate		111111111111111111111111111111111111111	1 2
	P1	idth	
	at DP	Max	21 2-
OHV		101	
Top of Ba	ank 6	901	
09.31.511-51	Left	Right	
Bank Slope (I		1.2	
Salvon Evaluation		tability Sum	mary
Left B	ank: 2 lend		
-		, O	
Right B	ank: Now 6	grosded	
1,19	1830		
	Habita	t Characteri	stics
Aquatic Vegetation If Yes, Describ	and the second s	Yes	No D
Aquatic Organisms If Yes, Describ		Yes	□ No □
Terrestrial Organism		Yes	No No



	Riparian (	Characteristics
Riparian Vegetation Right: Left:	termedia	3 150' from TOB): Balleghamenas, a sacchar
Associated Wetland		Yes No .
Associated Artificial If Yes, ID:	Drain Present:	Yes No No
and of several control of	P	hotos
Upstream	Direction	Notes/Additional Description
Dowsnstream Cross Channel	SE.	P. Ja 1
	Jurisdictional	Connectivity Notes:
Black opl	contact of	enchage Theory I sould elemental The Land
	Supplemental I	Notes & Comments:



Stream Field ID: 5	T-A202
Data Point ID: DP-	222 Date: 5/79/10
Project Name: Ball F	fill Wind Project
Evaluator(s): South	nu Z and Nicola OHLY
County: Chautauqua	State: NY
Stream Name: NIA	
State Classified: Yes   If Yes, Classified	
4000ch 61 :tal	Long:79, 135808
	Hydrologic Characteristics
Flow Regime: Perer	nnial Intermittent X Ephermeral
Surface Water:	Present Absent
Perceptible Flow:	Present Absent
Water Depth at Thalweg	the first contract of the cont
Flow/Gradient Direction:	West.
Ge	omorphologic Characteristics
Primary Substrate Cla	
*	Width
	at DP Max
OHWM	2.0 800
Top of Bank	2.511 71
	Left Right
Bank Slope (H:V)	
VIII	Bank Stability Summary
Left Bank:	Mostly Stable by hestageaux plants
	one ensur where it meanders
right bank.	Very Stable
	Habitat Characteristics
Aquatic Vegetation Pres If Yes, Describe:	ent: Yes No 🗵
Aquatic Organisms Obse If Yes, Describe:	erved: Yes X No
Terrestrial Organisms O If Yes, Describe:	bserved: Yes No 🔀



	Riparian (	Characteristics
Riparian Vegetation Right: 0-150	Description (0' to	
	- helbredons y	
Associated Wetland	1,1,2,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Yes 🕢 No 🔲
Associated Artificial If Yes, ID:	Drain Present:	Yes 😿 No
	P	hotos
	Direction	Notes/Additional Description
Upstream	E	
Dowsnstream	ω	
Cross Channel	N	LTR
	Jurisdictional	Connectivity Notes:
	Supplemental I	Notes & Comments:
Stern loca		ne a hourseld. Likely
	thopast	90



Stream Field ID: 5T-	A20:	3	
Data Point ID: DP-	243	Date:	5/06/16
Project Name: Ball H	III Wind Pr		
Evaluator(s):	0 900	100	
County: Chautauqua	0		State: NY
Stream Name: N/A	Y		
State Classified: Yes [ If Yes, Classification of the control of t	No ation:	Not A	Applicable
Lat: 42,396518		Long:	-79,151477
	Hydrologi	c Characte	ristics
Flow Regime: Peren	nial	Intermitte	ent X Ephermeral
Surface Water:	Present		Absent
Perceptible Flow:	Present	×	Absent
Water Depth at Thalweg:		The second secon	ted Perimeter Width:
Flow/Gradient Direction:	N		aca i connecte Pricon
Ge	omorpholo	ogic Chara	cteristics
Primary Substrate Class	18: JA	0400/3	nond - Secondary coople, sel
	Wie	dth	,
4	at DP	Max	
OHWM	41	6	
Top of Bank	5'	7	
Ī	Left	Right	
Bank Slope (H:V)	1577	111	
	Bank Sta	bility Sum	mary
Left Bank:		John	-el - morterato stability
-			
Right Bank:	Ances	ed chan	-el-woderate stability
£(	Habitat	Characteris	stics
Aquatic Vegetation Prese If Yes, Describe:		Yes [	No 🔀
Aquatic Organisms Obse If Yes, Describe:	rved:	Yes [	No 🔀
Terrestrial Organisms Ob If Yes, Describe:	served:	Yes [	No 🔀



	Riparian (	Characteristics
0	ASSO, The	2 150' from TOB): pland Phenulaules
Associated Wetland If Yes, Describ	Present:	Yes No No
Associated Artificial If Yes, ID:	Drain Present:	Yes X No
	P	hotos
	Direction	Notes/Additional Description
Upstream	- 5	
Dowsnstream	N	
Cross Channel	W	6 do R-
	Jurisdictional	Connectivity Notes:
		de la entron area
	Supplemental	Notes & Comments:
	of de Inen	tion agricultura I filo tion area Insiged showed



Stream Field ID: 51	A305	1 -					
Data Point ID: DP-	)49	Date:	5/06/	16		_	
Project Name: Ball H	ill Wind Pro						
Evaluator(s): ()	me Bris	00		-175			
County: Chautauqua	0	A1100A11	State:	NY			
Stream Name: N/A			F 120000000	77			
State Classified: Yes [ If Yes, Classification of the control of t			pplicable				
Lat: 43,393235	//=*/n	Long:	79.191	472		=======================================	
	Hydrologic	Character	ristics				
Flow Regime: Peren	nial 🗡	Intermitte	nt	Epherr	meral		
Surface Water:	Present	X	Absent				
Perceptible Flow:	Present	*	Absent				
Water Depth at Thalweg:	and the second second second	Wet		neter Width	1: 8		
Flow/Gradient Direction:	SE	110000	17:37-3-38-38-38-3	ARDRE LANDRE			
Geo	omorpholo	gic Charac	cteristics	1		7	
Primary Substrate Clas						<del></del>	
	Wid	th					
	at DP	Max					
OHWM	S.	9					
Top of Bank	9	10					ELT
	Left	Right					1900
Bank Slope (H:V)	101	1:1					
hackers bernaken a control	Bank Sta	bility Sum	mary				
Left Bank:	Incise	detar	mel	- mod	erate,	Dobilit	4
5,000,00		1 0	-		75		28.1
Right Bank:	Drown	d shar	-el-	macke	ate st	ability	
	Habitat (	Characteris	stics				
Aquatic Vegetation Prese If Yes, Describe:	ent:	Yes	No	×			
Aquatic Organisms Obse If Yes, Describe:		Yes [	× No	) Gunter	chigae	s Store	Blies
Terrestrial Organisms Of If Yes, Describe:	served:	Yes	No			mang	nes



	Riparian	Characteristics
Riparian Vegetation Right:		to 150' from TOB):
Left: Pastu	so with o	imble weed D glomerato.
Associated Wetland If Yes, Describ	Present:	Yes ☑ No ☐
Associated Artificial If Yes, ID:	Drain Present:	Yes No 🔀
		Photos
	Direction	Notes/Additional Description
Upstream	NW	
Dowsnstream	C. F	
Cross Channel	FINN	LR
	Jurisdictional	Connectivity Notes:
NUL-ABJOR	05A-7Q	1 Extends outside of seared
anea	-1.05 1.07 -521	
54245690		
	0 1	111.7.50
	Supplemental	Notes & Comments:
Domus real	* Lo O	Also Discontinuel
Law some		aparts amissiaring ex
Sold Market	3	



Stream Field ID: 51	- A 30 1						
Data Point ID: DP-	261	Date:	5/3/116				
Project Name: Ball Hill Wind Project							
	e 900						
County: Chautauqua	-0	Aut all	State: NY				
Stream Name: N/F							
	No ation:	CULID IN	Applicable La state advantaged C				
Lat: 43.388510			-79.TV5813				
	Hydrologi	c Characte	ristics				
Flow Regime: Perer	nnial	Intermitte	ent 🗡 Ephermeral				
Surface Water:	Present	7	Absent				
Perceptible Flow:	Present	X	Absent				
Water Depth at Thalweg	A THE RESERVE AND A SERVE		tted Perimeter Width:				
Flow/Gradient Direction:	M	- ···	tion i similatisi triami				
	omorpholo	ogic Chara	cteristics				
Primary Substrate Cla		Ble 1 9	and Maria				
, mary constitute on	Wic		to di la seconia				
	at DP	Max					
OHWM	2010	(4)					
Top of Bank	35	3.51					
	Left	Right					
Bank Slope (H:V)	1.0	+51					
	Bank Sta	ability Sum	mary				
Left Bank:	2 tale	le	V.				
Right Bank:	2tob	10					
	Habitat	Characteri	stics				
Aquatic Vegetation Pres If Yes, Describe:	ent:	Yes	□ No ⊠				
Aquatic Organisms Obse If Yes, Describe:	erved:	Yes	X No D				
Terrestrial Organisms Of If Yes, Describe:	bserved:	Yes	□ No ⊠				



	Riparian	Characteristics
Riparian Vegetation Right:	The second secon	STATE OF THE STATE
Left: 🔟 🗷	madinais	Bereil
Associated Wetland If Yes, Describ		Yes No 😕
Associated Artificial If Yes, ID:	Drain Present:	Yes No 🔀
	T T	Photos
	Direction	Notes/Additional Description
Upstream	5	
Dowsnstream	NE	
Cross Channel	W	F ter
	Jurisdictional	Connectivity Notes:
J-leun in	to ST-A	509 a NY State listed
		Notes & Comments:
		an enterintenzantonile
of delicatio	CINED	9



Stream Field ID: 51-	A305			
Data Point ID: DP-	172	Date:	6/1/16	
Project Name: Ball H	ill Wind Pr			
Evaluator(s):	190c	100		
County: Chautauqua	ζ)		State: NY	
Stream Name:				
State Classified: Yes [ If Yes, Classifica	No ation:	Not A	Applicable	
Lat: 42, 451975	Satur	Long:	79.111869	
	Hydrologi	c Characte	ristics	
Flow Regime: Peren	nial 🗡	Intermitte	ent Ephermeral	
Surface Water:	Present	+	Absent	
Perceptible Flow: Water Depth at Thalweg: Flow/Gradient Direction:	Present		Absentted Perimeter Width:	
THE STREET STREET STREET STREET	omorphol	ogic Chara	cteristics	
Primary Substrate Clas		-11 Blue	nel Decodar copol	ot Soul
5	Wie	dth	9	
1	at DP	Max		
OHWM	91	151		
Top of Bank	160	200		
	Left	Right		
Bank Slope (H:V)	(; )	1:1	,	
340.000	Bank St	ability Sum	mary	
Left Bank:		rately 1	The state of the s	
A Alleria		C)		
Right Bank:	Proob	ullego	labelo	
	Habitat	Characteris	stics	
Aquatic Vegetation Prese If Yes, Describe:	ent: A. Cog	Yes	No No Cottened	
Aquatic Organisms Obse If Yes, Describe:		Yes	× No Danselflus	
Terrestrial Organisms Ob If Yes, Describe:	served;	Yes	No 🔀	



	Riparlan	Characteristics
	Lucus up	land found I pomades
127.50.00	e Koursen	Duhung Meglaneron
Left:	.0	
Associated Wetland If Yes, Describ	Present:	Yes 🔀 No 🔲
Associated Artificial If Yes, ID:		Yes No 🔀
	F	hotos
	Direction	Notes/Additional Description
Upstream	W	
Dowsnstream	E	
Cross Channel	S	LloR
Oste do aul		Connectivity Notes:
	Supplemental	Notes & Comments:
somes lete	ale poul	or plets left Port



Stream Field ID: 51	490P		
Data Point ID: DP- ;	37.5	Date	: 61.116
Project Name: Ball Hi	ill Wind Pr		
	2000		
County: Chautauqua	0		State: NY
Stream Name: UNIT			B) Dyconym <del>ans</del>
State Classified: Yes [ If Yes, Classifica Lat: 40, 45 2 3 30	No		Applicable Applicable
	Hvdrologi	c Charact	
	.,	7	ACLES THE RESIDENCE OF THE PERSON OF THE PER
Flow Regime: Peren	nial	Intermit	tent Ephermeral 🔀
Surface Water:	Present		Absent
Perceptible Flow: Water Depth at Thalweg:	Present r√	la W	Absent etted Perimeter Width://
Flow/Gradient Direction:	- 5		
Geo	morphol	ogic Char	acteristics
Primary Substrate Clas	s: Olo	ng han	sition to sonde gravel
	Wi	dth	
	at DP	Max	
OHWM	al	0.	
Top of Bank	251	3.5	
î î	Left	Right	
Bank Slope (H:V)	12.1	1.1	
SEASON SENSON AND A STATE	Bank St	ability Sur	mmary
Left Bank:	2106		,,,,,,,
2511 2511111	-3/10	C386.)	
Right Bank:	Stale	lo	
(E) #			*
	Habitat	Characte	ristics
Aquatic Vegetation Prese If Yes, Describe:	nt:	Yes	□ No ⊠
Aquatic Organisms Obse If Yes, Describe:	rved:	Yes	□ No ✓
Terrestrial Organisms Ob	served:	Yes	□ No ✓



	Riparian C	Characteristics
Riparian Vegetation Right:		150' from TOB):
Left: Open	field Ira	silion to forested
Associated Wetland If Yes, Describ	Present: ) e: Connect	res No X
Associated Artificial If Yes, ID:		Yes No No
	P	hotos
	Direction	Notes/Additional Description
Upstream	N	The sales of the s
Dowsnstream	3	
Cross Channel	E	
	Jurisdictional (	Connectivity Notes:
anda metho	Josethe L	e of de li en lin oven
Street app	Supplemental Noons to he	Notes & Comments:



Stream Field ID: 5	A-207					
	278		:_ 61.16			
Project Name: Ball Hill Wind Project						
Evaluator(s):	inc 257	(Roscan)				
County: Chautauqua			State: NY			
Stream Name: 11/	Marred to	no of				
State Classified: Yes [ If Yes, Classific	X No ation:		Applicable			
Lat: 43.453.641	23 - 17 -	Long:	-79. 11599A			
	Hydrologic	Charact	eristics			
Flow Regime: Perer	inial 🗡	Intermit	tent Ephermeral			
Surface Water:	Present [	X	Absent			
Perceptible Flow:	Present	X	Absent			
Water Depth at Thalweg:			etted Perimeter Width: 3'			
Flow/Gradient Direction:	7					
Ge	omorpholo	gic Char	acteristics			
Primary Substrate Clas		51-150				
	Widt	th				
	at DP	Max				
OHWM	3.	5				
Top of Bank	3/	87				
i i	Left	Right	i			
Bank Slope (H:V)	211	ALA				
Same and your A.	Bank Stal	bility Sur	⊣ mmarv			
Left Bank:			estation Some traderically			
			Ų			
Right Bank:	Stokes, V	(enclude)	to bunk undercuthing at			
_100	weirs p	ants				
	Habitat C	haracter	ristics			
Aquatic Vegetation Prese If Yes, Describe:	ent:	Yes	□ No 🗶			
Aquatic Organisms Obse If Yes, Describe:		Yes (stakes	No .			
Terrestrial Organisms Ol If Yes, Describe:		Yes	X No □			



	Riparian (	Characteristics
Riparian Vegetation Right: 0-20 \$		
20-150	1. Uplant Ve	action field
Left: 0 - 30 (	+ PEMIPSS &	(nates)
30 - 50	fr Dolan la	ordern Grop Rest So 150 Committee
Associated Wetland If Yes, Describ		Yes X No Sto
Associated Artificial If Yes, ID:	Drain Present:	Yes X No
COMPARISON OF THE PARISON	hotos	
	Direction	Notes/Additional Description
Upstream	S	
Dowsnstream	N	
Cross Channel	3	Risc
	Jurisdictional (	Connectivity Notes:
Os tendo outos	de no deline	alioningo
	19	
	Sunnlemental	Notes & Comments:
	Supplementari	Notes & Comments.



Stream Field ID: 51	-A209	?				
Data Point ID: DP-	385		6/2/16			
Project Name: Ball Hill Wind Project						
Evaluator(s):	1 33W	00				
County: Chautauqua			State: NY			
Stream Name: U.N.	T					
State Classified: Yes [			Applicable			
If Yes, Classific	ation: Co		ouc / state classific			
Lat:		Long:				
	Hydrologi	c Characte	ristics			
Flow Regime: Perer	nnial	Intermitte	ent Ephermeral 🗵			
Surface Water:	Present		Absent ×			
Perceptible Flow:	Present		Absent			
Water Depth at Thalweg:	and the second s		tted Perimeter Width: NIA-			
Flow/Gradient Direction:	NV					
Ge	10000	ogic Chara	cteristics			
Primary Substrate Clas			oday colole			
2		dth	9			
	at DP	Max				
OHWM	-20 °	25"				
Top of Bank	30 "	40"				
	Left	Right				
Bank Slope (H:V)						
	Bank St	ability Sum	mary			
Left Bank:	2 100					
( HADINANCIA PAIN PAIN PAIN PAIN PAIN PAIN PAIN PA	- Charles					
Right Bank:	3.101	00				
	150000	~				
	Habitat	Characteri	stics			
Aquatic Vegetation Presentation	ent:	Yes	□ No ☑			
Aquatic Organisms Obse If Yes, Describe:	erved:	Yes	□ No ☑			
Terrestrial Organisms Ol If Yes, Describe:	oserved:	Yes	No 🗡			



	Riparian C	Characteristics
Riparian Vegetation Right:	Secure and the second security of the Same and the	150' from TOB);
Left: Veri	duan for	est (J. marices, a south
Associated Wetland		Yes No X
Associated Artificial If Yes, ID:	Drain Present:	Yes No 🔀
	PI	hotos
Upstream	Direction	Notes/Additional Description
Dowsnstream Cross Channel	NW	v + - 1
Orosa Orianner	Jurisdictional (	Connectivity Notes:
conseils w	tha state	SCPPH) gillingtely
The grad	Supplemental N	Notes & Comments:



Stream Field ID:	A.30 %		
Data Point ID: DP-	186	Date:	6/2/10
Project Name: Ball H	III Wind Pr	oject	
Evaluator(s): (him	10 Q Du	00	
County: Chautauqua			State: NY
Stream Name: UKN 7			
State Classified: Yes [ If Yes, Classificated: 43, 467343	No	Swo in	Applicable lassified (C.C)
	Hydrologi	c Characte	
	riyurologi	Conaracte	ilatics
Flow Regime: Perer	nial	] Intermitte	ent Ephermeral 🗡
Surface Water:	Present		Absent
Perceptible Flow:	Present		Absent
Water Depth at Thalweg:	NU	A We	tted Perimeter Width: N //
Flow/Gradient Direction:	TYV	rith	A SECTION OF THE PROPERTY OF T
Ge	omorphol	ogic Chara	
Primary Substrate Class	:s: <u>(\sigma_a</u>	drock	2 room dary randgrowell sil,
	Wie	dth	9 3 3 3 3
	at DP	Max	
OHWM [	38,	28	
Top of Bank	-51	10	
930 9990 SAN	Left	Right	
Bank Slope (H:V)	11(7.1)	2:	
	Bank Sta	ability Sum	mary
Left Bank:	Stabl	6	
7			
Right Bank:	2 tal	lo.	
5 <u></u>			
	Habitat	Characteri	stics
Aquatic Vegetation Prese If Yes, Describe:	int:	Yes	No 🔀
Aquatic Organisms Obse If Yes, Describe:	rved:	Yes	No ✓
Terrestrial Organisms Ob	served:	Yes	y No □



	Riparian	Characteristics
Riparian Vegetation Right:		
Left: 19eoco	duares fo	ones
Associated Wetland If Yes, Describ		Yes No 🗵
Associated Artificial If Yes, ID;	Drain Present:	Yes No 🔀
	7	Photos
	Direction	Notes/Additional Description
Upstream	S	<u> </u>
Dowsnstream	N	
Cross Channel	W	PloL
	Jurisdictional	Connectivity Notes:
stream (C, C)		SULTENT Jackot enlangu
2 hen is	Cu jungo	Notes & Comments:



Stream Field ID: 51-	A310		
Data Point ID: DP-	387	Date:	6/3/16
	ill Wind Pro	piect	
Evaluator(s):		- ^	
County: Chautauqua	0	042:	State: NY
The state of the s	maur		
State Classified: Yes [	√ No	Not a	Applicable
Lat: 40, 461741		Long:	-79.149329
	Hydrologic	c Characte	ristics
Flow Regime: Peren	nial	Intermitte	ent   Ephermeral
Surface Water:	Present	7	Absent
Perceptible Flow:	Present	7	Absent
Water Depth at Thalweg:	11 (5/5) (5/5) (5/5) (1/4)	We	tted Perimeter Width: 3
Flow/Gradient Direction:	W		mo i diministri i Manti
	omorpholo	gic Chara	cteristics
Primary Substrate Clas	THE RESERVE OF THE PARTY OF THE	11 1 2	conlider / David Knowl / Cosple
	Wid	MACHEN L.	CALCOS I TELEVISION I TONO IN TONO I TONO
	at DP	Max	
OHWM	4	15	
Top of Bank	20.5	13	2
TOP OF BUILD		ed 3	
D1-01 (1130	Left	Right	
Bank Slope (H:V)	17.1	0	
	Bank Sta	bility Sum	mary
Left Bank: _	Portion	2200	lad
-			
Right Bank:_	Porteo	- O 050	nama-devode
	Unhitati	Ch ana ataul	
Carry College of the		Characteri	
Aquatic Vegetation Prese If Yes, Describe:	nt:	Yes	No 🔀
Aquatic Organisms Obse If Yes, Describe:	rved: Limburz	Yes	Megalostha
Terrestrial Organisms Ob If Yes, Describe:		Yes	□ No □



	Riparian	Characteristics
Riparian Vegetation Right:		
Left: Dece	duous f	e est
Associated Wetland If Yes, Describ	Present:	Yes No S
Associated Artificial If Yes, ID:		Yes No 🗡
	P	hotos
	Direction	Notes/Additional Description
Upstream	E	
Dowsnstream	W	
Cross Channel	5	A 20 1-
Ilampants		Connectivity Notes:
B : I II		Notes & Comments:
North and Annual Control	-827,00	care aced of the the



Stream Field ID: ST-	A211		
Data Point ID: DP-	188	Date:	613/16
Project Name: Ball H	ill Wind Pr		
Evaluator(s):	290i	204	
County: Chautauqua	9		State: NY
Stream Name: UNI	1		
State Classified: Yes [ If Yes, Classification of the control of t		Not	Applicable
Lat: 43,467250	- 8	Long:	- 79, 149374
	Hydrologi	c Characte	eristics
Flow Regime: Peren	nial	Intermitte	ent Ephermeral
Surface Water:	Present	- Children Const	Absent
Perceptible Flow:	Present		Absent
Water Depth at Thalweg:	and the same of the contract o		tted Perimeter Width:
Flow/Gradient Direction:	ho	ALK.	
		ogic Chara	cteristics
Primary Substrate Clas	s: 10	oul/C	lay Bult " Decondony Colol
	Wic	dth	
2,7,4,20,110,120,120	at DP	Max	
OHWM	2051	3.5	
Top of Bank	51	5	
	Left	Right	
Bank Slope (H:V)	2:1	T5 : [	
	Bank Sta	ability Sun	imary
Left Bank:	morde	antely.	stable
9		V.	
Right Bank:	marole	while	stople
	Habitat	Characteri	
Aquatic Vegetation Prese If Yes, Describe:	nt:	Yes	No 🔀
Aquatic Organisms Obse If Yes, Describe:	rved:	Yes	□ No ⊭
Terrestrial Organisms Ob If Yes, Describe:	served:	Yes	□ No →



	Riparian	Characteristics
Riparian Vegetation Right:		
Left: Den	Lucius Be	nest
Associated Wetland If Yes, Describ		Yes No 🔀
Associated Artificial	The second secon	Yes 🔀 No 🔝
	, Р	Photos
	Direction	Notes/Additional Description
Upstream	5	
Dowsnstream	N	
Cross Channel	W	PloL
	Jurisdictional	Connectivity Notes:
Corneals to	c 51-AJ	10 a state designated
Cell Solling		The second secon
		Notes & Comments:
youngs a rack	- I ho adju	rate stren. Long Ditler
Charles Virginia	Langton	
		397



Stream Field ID:S1	-US13-			
Data Point ID: DP-	193 D	ate: 6/3/16		
Project Name: Ball Hi	II Wind Project			
Evaluator(s):	e games			
County: Chautauqua	- 0	State:	NY	
Stream Name: LANT			-	
State Classified: Yes [ If Yes, Classifica		Not Applicable		
Lat: 42.469657	Lo	ng: <u>- 19,149</u>	37/	
	Hydrologic Char	acteristics		
Flow Regime: Peren	nial Inter	mittent	Ephermeral X	
Surface Water:	Present	Absent	1	
Perceptible Flow:	Present	Absent	*-	
Water Depth at Thalweg:	One	Wetted Perim	eter Width: Down	
Flow/Gradient Direction:	taken			
Geo	morphologic Ch			
Primary Substrate Clas	s: Isand/	Mouel/	Clay Decondaryon	SER
~ [	Width		91	
Г	at DP Ma	x		
OHWM	2.51 2.5			
Top of Bank	6 6			
Ī	Left Rigi	nt l		
Bank Slope (H:V)	1:1 1:1			
2427 GEO GEORGE VINDO 1	Bank Stability S	Summary		
Left Bank:	Delatinely /			
	- 0			
Right Bank:	Selationery of	dable	17	
	Habitat Charac	cteristics		
Aquatic Vegetation Prese If Yes, Describe:	nt: Yes	s No	7	
Aquatic Organisms Obse If Yes, Describe:	rved: Yes	s No		
Terrestrial Organisms Ob If Yes, Describe:	served: Yes	s No	7	



	Riparian C	Characteristics
Riparian Vegetation Right:	Description (0' to	The state of the s
Left: 1Deci	duand fo	nest
Associated Wetland If Yes, Describ	Present: N	Yes No 38 mantano funtiologic
Associated Artificial		Yes No No
	P	hotos
	Direction	Notes/Additional Description
Upstream	E	
Dowsnstream	N	
Cross Channel	5	R. to L
	Jurisdictional (	Connectivity Notes:
		en proposition of
mapped on	51-113.10	
agalla per		Notes & Comments:



Stream Field ID: 51	-A313
Data Point ID: DP-	394 Date: 6/3/16
Project Name: Ball H	Hill Wind Project
Evaluator(s):	20 m
County: Chautauqua	State; NY
Stream Name: U.N.	in the second se
State Classified: Yes [ If Yes, Classifica	the state of the s
Lat: 12, 469299	Long: - 79, 149667
	Hydrologic Characteristics
Flow Regime: Peren	nnial Intermittent Ephermeral
Surface Water:	Present Absent ×
	Present Absent 7
Perceptible Flow:	: Word charul Wetted Perimeter Width:
Flow/Gradient Direction:	
THE STATE OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF	- LOC
	eomorphologic Characteristics
Primary Substrate Clas	77.0
	Width
Secretary 2	at DP Max
онум	a 1 3 3
Top of Bank	3' 4'
	Left Right
Bank Slope (H:V)	
	Bank Stability Summary
Left Bank:	Detable
2252 P - 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Right Bank:	Islable
	Habitat Characteristics
Aquatic Vegetation Prese If Yes, Describe:	sent: Yes No 📈
Aquatic Organisms Obse If Yes, Describe:	erved: Yes No No
Terrestrial Organisms Ob If Yes, Describe:	Observed: Yes No



	Riparian	Characteristics
Riparian Vegetation Right:		A21 P1816 Waga 22 C C Triston A2 C
Left: Dans	duans fo	neat
Associated Wetland If Yes, Describe		Yes No 🔀
Associated Artificial If Yes, ID:	-	Yes No No
1.10/1.18/2/2012/02/2012	P	Photos
	Direction	Notes/Additional Description
Upstream	E	
Dowsnstream	W	
Cross Channel	5	Ptolo
	Jurisdictional	Connectivity Notes:
outside of P		ignated (C,C) atres
Stream or		Notes & Comments:
DAIN MAINTAINE V	THE STATE OF THE S	ODM SINGLO DITA CON SINGLO SI

STREAM FIELD ID: A 500



Stream Name:		Date: 10 12 0 1 4 5		
County: Chautanqua		State: New York		
Evaluator(s): BV ass. on Burney		Data Point ID: DP 502		
	Stream Characteristics		Bottom Characteristics	
Flow Regime: [x] Stream Flow Direc Width (ft) (water's	Perennial     Intermittent        tion		Photos Substite 14"	esent): 12" 24" 36"
	Bank Height and Slope		Associated Habitat	Size Class
Loft Bank*	0-3' High 0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% + (38-45°) 106%+(46°+) 3-6' High 0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+)	Right Bank*	Riparian Vegetation[x] yes [] no If yes, list:  Aquatic Vegetation [] yes [X] no If yes, list:  Associated Wetland [A] yes [] no If yes, list ID:   Aquatic Organisms [X] yes [] no If yes, list:   First ( 100 m)  Riparian/Terrestrial Organisms [] yes [X] no If yes, list:  T&E Species [] yes [X] no If yes, list:	
of sh	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+)  t of any Evidence of Erosion: β  Δες Ινανα αλλεστολ  Δες Ιν	og ostra Dooks	Stream Photos Collected ID, Direct  SOZ US US  SO3 DI E  SON UTU IN	tion, and Description:

STREAM FIELD ID: \_ST-8501



Stream Name Unnamed Tributary		Date: 10/210/2015		
County: Chautauqua		State: New York		
Bvaluator(s): ///	Boberg B Vists		Data Point ID: DO-504	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [3] yes [ ] no Flow Regime: [   Perennial [3] Informittent [   Ephemeral  Stream Flow DirectionStath  Width (ft) (water's edge to water's edge)Z'  Width (ft) (bank to bank)4'		Substrate Type:   Probed Stream Depth (if water present):     Bedrock       0 - 6"		
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3' High 0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) 100%+(46°+) 3-6' High 0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+)	Right Bank*	Riparian Vegetation     yes     no   If yes, list:  Aquatic Vegetation     yes	[ ] Major >100 ft [ ] Intermediate >10 ft, <100ft Minor <10 ft
	6' + 11igh		T&E Species [ ] yes [K] no If yes, fist;	
Verticle	0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+)  of any Evidence of Erosion:  banks with mine		Stream Photos Collected ID, Direction Photo 5016 US (N.)  Photo 607 05 (S.)  Photo 508 071 (E.)	on, and Description:

STREAM FIELD ID: \_\_3T-11502



Stream Name: /	unnamed Tributary		Date: 10/28/2015	
County, Chauta			State: New York	
Evaluator(s): //	BOBERG B. VIETS		Data Point ID: DP=520	
	Stream Characteristics		Bottom Characteristics	
Flow Regime: D	ectionIN/e_S F 's edge to water's edge){e'8	Ephemeral		Stream Depth present): - 6" - 12" 3 - 24" 5 - 36" 7" + to Perceptible Depth
T07244 220 1	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) 100% + (46° +)  3-6' High 0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46° +)	Right Bank*	Riparian Vegetation[s] yes [] no If yes, list:  Aquatic Vegetation [] yes [s] no If yes, list:  Associated Wetland [] yes [s] no If yes, list ID:  Aquatic Organisms [] yes [s] no If yes, list:  Riparian/Terrestrial Organisms  [] yes [s] no If yes, list:  T&F Species [] yes [s] no If yes, list:	[ ] Major > 100 ft  mo [4] Intermediate > 10 ft, < 100ft  [x] Minor < 10 ft
	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+) of any Evidence of Erosion:	hout	Photo 526 (DS) we Photo 527 (1272) s	

STREAM FIELD ID: STREAM A 503



Stream Name:	Date: 10/24/15	
County: Chautauqua		
Evaluator(x): B. V. 273, M. Bulseng	Data Point ID: DP - 52%	
Stream Characteristics	Bottom Characteristics	
Perceptible Flow [X] yes     no  Flow Regime: [X] Perennial       Intermittent       Ephemeral    Stream Flow Direction	Substrate Type:    Probed Stream Depth (if water present):	
Bank Height and Slope	Associated Habitat	Clare Paris
Description   Right Bank*	Riparian Vegetation   yes   no If yes, list: Feetate Feeta   no If yes, list:  Associated Wetland   yes   no If yes, list ID:  Aquatic Organisms   yes   no If yes, list:  Riparian/Terrestrial Organisms   yes   no If yes, list:  T&E Species   yes   no If yes, list:  T&E Species   yes   no If yes, list:	Size Class    Major   > 100 ft     Intermediate   > 10 ft, < 100ft     Minor   < 10 ft     On, and Description:
Provide Detail of any Evidence of Erosion: 572 672	1341	Shu
evidence of easien	2046	sle

STREAM FIELD ID: A 504



ream Name: unnamed Tributary		Date: 10 25 15		
County: Chautauqua		State: New York		
Svaluator(s):	3 V.215, 177 Boberry		Data Point ID: 00-525	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow     yes     100  Flow Regime:     Perennial     Intermittent     Ephemeral  Stream Flow Direction			Substrate Type:    Probed Stream Depth (if water present):   Gravel   1 0 - 6"   1 7 - 12"	
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3' High  0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) 100%+(46°+)  3-6' High  0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+)	Right Bank*	Riparian Vegetation [2] yes [3] no If yes, list: Frech Frech Color  Aquatic Vegetation [3] yes [4] no If yes, list:  Associated Wetland [2] yes [4] no If yes, list ID: 60 Frech 20 Res  Aquatic Organisms [3] yes [4] no If yes, list:  Riparian/Terrestrial Organisms [3] yes [4] no If yes, list:  T&E Species [4] yes [5] no If yes, list:	Major   > 100 ft
_670556	strike mesoder b	-directing	Stream Photos Collected ID, Direct 545 US / W 546 OS/E 547 LTR/ S	<b>)</b>

STREAM FIELD ID: A505



Stream Name: Grandoned Total Buryage		Date: 10 70 15	
County: Chantauqua			
3. Vizrs, M. Bob.		Data Point ID: DP-526	
Stream Characteristics	4	Bottom Characteristics	
Perceptible Flow [X] yes     no  Flow Regime: [X] Perennial [   Intermittent     Ephemeral  Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):     Bedrock       0 - 6"     7 - 12"	
Bank Height and Slope		Associated Habitat	Size Class
9-20% (0-11°) 21 - 50% (12-27°) 51 - 100% + (38-45°) 100% + (46° +)  3-6' High  0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46° +)  6' + High  0 - 20% (0-11°) 24 - 50% (12-27°) 51 - 100% (38-45°) 100% (46° +)	Right Bank*	Riparian Vegetation [ ] yes [ ] no If yes, list: FACE ITEN OF Aquatic Vegetation [ ] yes [ ] no If yes, list:  Associated Wetland [ ] yes [ ] no If yes, list:  Associated Wetland [ ] yes [ ] no If yes, list:  Aquatic Organisms [ ] yes [ ] no If yes, list:  Riparian/Terrestrial Organisms	
Sable with little to be		Sug psta	
	Stream Characteristics   Stream Characterist	Stream Characteristics	State: New York   Data Point ID: Do 5 2 6

STREAM FIELD ID: \_\_ASO6



Stream Name: Universed Tit. bulley		Date tolzolis	Date: 10 29 15	
County: Chautauqua	2	State: New York		
Evaluator(s): B. V. 1255, M. Beb	200	Data Point ID: DP-527		
Stream Characteristics		Bottom Characteristics		
Perceptible Flow [S] yes [ ] no  Flow Regime: [ ] Perennial [S] Intermittent [ ] Ephemeral  Stream Flow Direction No. 14.  Width (ft) (water's edge to water's edge)		Substrate Type:   Probed Stream Depth (if water present):     Bedrock       0 - 6"		
Bank Height and Slope		Associated Hubitat	Size Class	
U-3' High  1	Right Bank*	Riparian Vegetation[x] yes [] no If yes, list:	Major   >100 ft       Intermediate   >10 ft   <100ft	
[ ] 51 - 160% (38-45°) [ ] 100% (46°+) Provide Detail of any Evidence of Erosion: 1	ا ا	551 5 03 552 N 105	on, and Description:	
gradient cheaned with		553 W/arc		

STREAM FIELD ID: A508

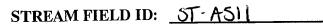


Stream Name	Lancas I Talk L			
Stream Name: Uncorosed Till berken		Date: 10/3e/15		
	OF THE RESERVE OF THE PERSON O		State: New York	
Evanator(s). E	S.V 1873, M Sobrig		Data Point ID: DO532	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [ ** yes   ] no  Flow Regime: [ ] Percannal [   Intermittent [   Ephemeral  Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):     Bedrock     0 - 6"       7 - 12"		
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3 High 0 - 20% (0-11*) 21 · 50% (12-27*) 51 · 100% + (38-45*) 100%+(46*+) 3-6 High 0 - 20% (0-11*) 21 · 50% (12-27*) 51 · 100% (38-45*) 100% (46*+) 6 + High 0 - 20% (0-11*) 21 · 50% (12-27*) 51 · 100% (38-45*)	Right Bank*	Riparian Vegetation [1] yes [1] no If yes, list:  Associated Wetland [2] yes [2] no If yes, list:  Associated Wetland [2] yes [3] no If yes, list:  Associated Wetland [2] yes [3] no If yes, list:  Riparian/Terrestrial Organisms [1] yes [3] no If yes, list:  T&E Species [1] yes [3] no If yes, list:	( ) Major >100 ft  ( ) Intermediate >10 ft, <100ft  ( ) Minor <10 ft
Storm	100% (46°+) of any Evidence of Erosion: Chancel by 1:44 Sec & Present	te to	561 US /N 562 DS /S 563 RTL E	

#### STREAM FIELD ID: 57 - ASO7



Stream Name University Tributary		Date: 11/03/2015		
County: Chautauqu	m /		State: New York	
ivaluator(s):	S. Butlervruyer		Data Point ID:	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [X] yes [ ] no  Flow Regime: [A] Perennial [   Intermittent [   Ephemeral  Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):       0 - 6"     7 - 12"		
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3' High 0-20% (0-11°) 21-50% (12-27") 51-100% + (38-45°) 100%+(46°+) 3-6' High 0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) 100% (46°+)	Right Bank*	Riparian Vegetation[y] yes [] no. If yes, list:  Aquatic Vegetation [] yes [x] no. If yes, list:  Associated Wetland [] yes [x] no. If yes, list ID:  Aquatic Organisms [] yes [x] no. If yes, list:  Riparian/Terrestrial Organisms [] yes [x] no. If yes, list:  T&E Species [] yes [x] no. If yes, list:	Major   >100 ft   Intermediate   >10 ft   <100ft
0 - 20% (0-11°)   1		Photo 580 DS/E	V	





Project Name: Ball Hill Wind Project	
Stream Name: Unnamed Tributary	Date: 何以OS/2015
County: Chautauqua	State: New York
Evaluator(s): M-Boberg S Buelenmiyer	Data Point ID: 573
Stream Characteristics	Bottom Characteristics
Perceptible Flow [X] yes [ ] no	Substrate Type: Probed Stream Depth (if water present):
Now Regime: [X Perennial [ ] Intermittent [ ] Ephemeral	[ ] Bedrock [ <b>x</b> ] 0-6"
Stream Flow Direction South Width (ft) (water's edge to water's edge) 2-5' Width (ft) (bank to bank) 0-8'	[X] Cobble [ ] 7-12" [ ] Gravel [ ] 13-24" [ ] Sand [ ] 25-36" [ X] Silt/Clay [ ] 37" + [ ] Other [ ] No Perceptible Depth
Bank Height and Slope	Associated Habitat Size Class
Left Bank* Right B $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Riparian Vegetation[X] yes [] no If yes, list:  Aquatic Vegetation [] yes [X] no If yes, list:  Associated Wetland [X] yes [] no If yes, list ID:  Aquatic Organisms [] yes [X] no If yes, list:  Riparian/Terrestrial Organisms [] yes [X] no If yes, list:  T&E Species [] yes [X] no If yes, list:
[] 0 - 20% (0-11°) [] [] 21 - 50% (12-27°) [] [] 51 - 100% (38-45°) [] [] 100% (46°+) []  Provide Detail of any Evidence of Erosion:  MINOY CROSION ON DANKS	Stream Photos Collected ID, Direction, and Description:  Photo UI US/N  Photo UI2 DS/S  Photo UI3 DTU/W

### STREAM FIELD ID: ST-A512



Stream Name: Unnamed Tributary		Date: 11/05/2015	Date: 11/05/2015	
County: Chautaug	sia	State: New York		
Svaluator(s): M-Boberg	5 Buckenmeyer	Data Point ID: 574		
	Stream Characteristics	Bottom Characteristics		
Perceptible Flow [X] yes [ ] so  Flow Regime: [X] Perennial [ ] Intermittent [ ] Ephemeral  Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):     Bedrock       0 - 6"		
	Bank Height and Slope	Associated Habitat	Size Class	
Left Bank*	0-3' High  0-20% (0-11°) 21-50% (12-27°) 51-100% + (38-45°) [] 100%+(45"+)  -3-6' High  0-20% (0-11°) 21-50% (12-27°) 51-100% (38-45°) [] 100% (46°+) [] 6' + High	Aquatic Vegetation [ ] yes [X] no If yes, list:  Associated Wetland [X] yes [ ] no If yes, list ID  Aquatic Organisms [ ] yes [X] no If yes, list:  Riparian/Terrestrial Organisms [ ] yes [ ] no If yes, list:	Major   >100 ft   Intermediate   >10 ft	
[ ] [ ] [ ] Provide Detai	0 - 20% (0-11°) [ ] 21 - 50% (12-27°) [ ] 51 - 100% (38-45°) [ ] 100% (46°+) [ ]	Photo UIS DIS  Photo UIS DIS  Photo UID RTL	AS/N	

STREAM FIELD ID: ST- ASI 8



Project Name:	Ball Hill Wind Project			
Stream Name:	unnamed Tributary		Date: 11/11/15	
County: Chautanqua		State: New York		
Evaluator(s): M. Bober	g B.Virts		Data Point ID: 603	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [4] yes [ ] no  Flow Regime: [4] Perennial [ ] Intermittent [ ] Ephemeral  Stream Flow Direction		Substrate Type:    Probed Stream Depth (if water present):   Gravel   7 - 12"   13 - 24"   1 Sand   1 25 - 36"   1 37" +   1 Other   1 No Perceptible Depth		
	Bank Height and Slope		Associated Hubitat	Size Class
Left Bank*	0-3'High	Right Bank*	Riparian Vegetation[] yes [2] no If yes, list:	[ ] Major >100 ft
<u> </u>	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% + (38-45°) 100%+(46°+) 3-6: High	[e]	Aquatic Vegetation [ ] yes [y] no If yes, list:  Associated Wetland [x] yes [x] no If yes, list ID: 102.4562  Aquatic Organisms [ ] yes [x] no	Intermediate >10 ft, <100ft  Minor <10 ft
	0 - 20% (0-11") 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+)		Riparian/Terrestrial Organisms [ ] yes [x] no If yes, list:  T&E Species [ ] yes [x] no	
	6' + High  0 - 20% (0-11°)  21 - 50% (12-27°)  51 - 100% (38-45°)  100% (46°+)  of any Evidence of Erosion:		Stream Photos Collected ID, Directi Photo 663 DS/N Photo 663 DS/N	on, and Description.
			Photo wa ere/w	

STREAM FIELD ID: A519



tream Name;			Date: 11 12/2015	
County: Chautaud	ua		State: New York	
ivaluator(s): B. \	Victs, S. Buckenneyo		Data Point ID: 608	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [4] yes [ ] no  Flow Regime: [4] Percential [   Intermittent [   Ephemeral  Stream Flow Direction [5,5]  Width (ft) (water's edge to water's edge) [2] [4] [5]  Width (ft) (bank to bank) [3] [4] [5] [6]				sent): 2" 24"
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3' High 0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% + (38-45°) 100% + (46° +) 3-6' High 0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46° +) 6' + High 0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46° +)	Right Bank*	Riparian Vegetation[X] yes [] no If yes, list: FACM LPTIME Envergant Marketones Species Aquatic Vegetation [] yes [X] no If yes, list:  Associated Wetland [] yes [X] no If yes, list ID:  Aquatic Organisms [] yes [X] no If yes, list: Not observed.  Riparian/Terrestrial Organisms [X] yes [] no If yes, list: Coldie.  T&F Species [] yes [X] no If yes, list: Not Coloratived  Stream Photos Collected ID, Directi	
100 miles	t of any Evidence of Brosson: Mu to TiveStock access	vac Grazion		



Stream Name		Date: 11/12/2015		
County: Chautauqua		State: New York		
Evaluator(s): B. Victs, S. Buckenmeye	c	Data Point ID: 609		
Stream Characteristics		Bottom Characteristics		
Perceptible Flow [X] yes [ ] no  Flow Regime: [X] Perennial [   Intermittent [ ] Ephemeral  Stream Flow Direction   Horth SB   East    Width (ft) (water's edge to water's edge)   2 - 8 + 60 + 1  Width (ft) (bank to bank)   4 - 10 + 60 + 1		Substrate Type:   Probed Stream Depth (if water present):     0 - 6"     0 - 6"     7 - 12"     13 - 24"     13 - 24"     25 - 36"       Salt/Clay     37" +     Other   1 No Perceptible Depth   1 No Perceptible Depth   1 No Perceptible Depth   1   1   1   1   1   1   1   1   1		
Bank Height and Slope		Associated Habitat	Size Class	
Deliver   Deli	tabilityin	Riparian Vegetation [ ] yes [ ] no If yes, list: Fac whether Emargart Har language Aquatic Vegetation [ ] yes [ ] no If yes, list:  Associated Wetland [X] yes [ ] no If yes, list: ID: A565  Aquatic Organisms [ ] yes [X] no If yes, list: None Observed  Riparian/Terrestrial Organisms [X] yes [ ] no If yes, list: Caltle  TRE Species [ ] yes [X] no If yes, list: None observed  Stream Photos Collected ID, Direct Living Market Collected ID, Direct		

STREAM FIELD ID: \_A521



Stream Name:	NORTH Brench		Date: (1 ) (2 ) (5		
County: Chaptage					
Approximately and			State: New York		
. 18	Viers, S. Buckery	religi	Data Point ID DO: 617	-DE-160	
75 - p. 7542- p.	Stream Characteristics		Bottom Characteristics		
Perceptible Flow [X] yes [ ] no  Flow Regime: [X] Perennial [ ] Intermittent [ ] Ephemeral  Stream Flow Direction Nos 4 v  Width (ft) (water's edge in water's edge) 10 = 21 , 20 = 6  Width (ft) (bank to bank) 10 = 15 - 12 , 20 = 6		Substrate Type:    Probed Stream Depth (if water present):   Gobble     0 - 6"   0 - 7 - 12"   13 - 24"   13 - 24"   15 - 36"   15 -			
	Bank Height and Slope		Associated Habitat	Size Class	
Left Bank*	0-3'High 0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% + (38-45°) 100% + (46° +) 3-6'High 0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46° +) 6' + High 0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°)	Right Bank*	Riparian Vegetation   yes   1 no   If yes, list: fraction   yes   1 no   If yes, list: fraction   yes   1 no   If yes, list:  Associated Wetland   yes   1 no   If yes, list:     yes   4 no   If yes, list:     yes   4 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no   If yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes, list:     yes   1 no     yes   ye	[ ] Major >100 ft [ ] Intermediate >10 ft, <100ft [ ] Minor <10 ft	
l l Provide Detail of	100% (46°+) any Evidence of Brosion:	13	- 680 us/w	- Transference	
3041- 2s	source terms and seconds  so bours because to	2	- 682 KTU/N		

STREAM FIELD ID: \_\_\_\_ASZZ\_



Stream Name: Lors Grown Tendert Day County: Chantangua		Date: "1/3/15		
		State: New York		
Evaluator(s):	В. v.2.т §		Data Point ID: 00 -619	
	Stream Characteristics			
Perceptible Flow [X] yes [ ] no  Flow Regime: [   Perennial [ X] Intermittent [ ] Ephemeral  Stream Flow Direction   Nor 1 x  Width (ft) (water's edge to water's edge)   2 *		Substrate Type:   Probed Stream Depth (if water present):     Bedrock         0 - 6"		
Vidth (ft) (bank	to bank) 6 - 8 '  Bank Height and Slope		Associated Habitat	7 (av. 45
Left Bank*	0-20% (0-11°) 21 - 50% (12-27°) 51 - 100% + (38-45°) 100% + (46°+)  3-6' High  0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+)  0' + High  0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+)	Right Bank*  [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	Riparian Vegetation   yes   no If yes, list: RI Ben & Destruct	Size Class  [ ] Major > 160 ft  [ ] Intermediate > 10 ft, < 100 ft  [ ] Minor < 10 ft
Chinnel	that is impact	ed by	691- N/05 692- WIRTL	

STREAM FIELD ID: 51-A523



Stream Name: UNDUMED TOOLTOLLY		Date: 11/10/2015		
County: Chautauqua		State: New York		
Evaluator(s): M	soberg Suckenmeyer		Data Point ID: DP 624	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [X] yes [ ] no Flow Regime: [X] Perennial [ ] Intermittent [ ] Ephemeral Stream Flow Direction North  Width (ft) (water's edge to water's edge) 2 to 3 feet  Width (ft) (bank to bank) 2 to 4 feet		Substrate Type:   Probed Stream Depth (if water present):     Bodrock       0 - 6"       7 - 12"		
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3' High 0-20% (0-11°) 21 · 50% (12-27°) 51 · 100% + (38-45°) 100% + (46° +) 3-6' High 0-20% (0-11°) 21 · 50% (12-27°) 51 · 100% (38-45°) 100% (46° +) 6' + High 0-20% (0-11°)	Right Bank*	Riparian Vegetation[k] yes [] no If yes, list: Scrist 5h (415)  Aquatic Vegetation [ ] yes [v] no If yes, list:  Associated Wetland [x] yes [] no If yes, list ID:  Wil. 7578  Aquatic Organisms [ ] yes [x] no If yes, list:  Riparian/Terrestrial Organisms [ ] yes [x] to If yes, list:  TAE Species [ ] yes [x] no If yes, list:	Major   > 100 ft
Provide Details	21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+) of any Evidence of Ezosion:	A STATE OF THE STA	Photo 1998 DSIN Photo 1999 121UE	ion, and Description:



STREAM FIELD ID: ST-ASTIC

Stream Name: unnamed Tributady		Date: 11/20/2015		
TELOPUS ASSENCED TO THE POST OF THE POST O		State: New York		
County: Chautauqui Evaluator(s): M - C	30berg s. Buckerm	Lyer	Data Point ID: 656	
	Stream Characteristics		Bottom Characteristics	
Perceptible Flow [X] yes [ ] no  Flow Regime: [X] Perennial [ ] Intermittent [ ] Ephemeral  Stream Flow DirectionNO116  Width (ft) (water's edge to water's edge)8-104  Width (ft) (bank to bank)15-204		Substrate Type:   Probed Stream Depth (if water present):		
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank"	0-2'High 0-20% (0-11") 21-50% (12-27") 51-100% + (38-45") 100%+(46"+) 3-6' High 0-20% (0-11") 21-50% (12-27") 51-100% (38-45") 100% (46"+)	Right Bank*	Riparian Vegetation[x] yes [ ] no If yes, list:  FAC ENLIGEN   NUVOLUOUS Aquatic Vegetation [ ] yes [x] no If yes, list:  Associated Wetland [ ] yes [x] no If yes, list:  Aquatic Organisms [ ] yes [x] no If yes, list:  Riparian/Terrestrial Organisms [ ] yes [x] no If yes, list:  T&E Species [ ] yes [x] no If yes, list:	Major   >100 ft
	0 - 20% (0-11°) 21 - 50% (12-27°) 51 - 100% (38-45°) 100% (46°+) of any Evidence of Erosion:		Photo 734 US/S  Photo 734 US/S  Photo 737 DS/N  Photo 738 RTU/6	

STREAM FIELD ID: 51- A527



roject Name: Ball I	lill Wind Project			
Stream Name: UA	named Tributary		Date: 11/20/15	
County: Chautauqu			State: New York	
Evaluator(s): M-B	opera S. Bueicenna	yer	Data Point ID: 657	
	Stream Characteristics	Ů.	Bottom Characteristics	
Perceptible Flow Q   yes [   na Flow Regime: [X] Perennial [   Intermittent [ ] Ephemeral  Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):     Bedrock       0 - 6"       7 - 12"		
	Bank Height and Slope		Associated Hubitat	Size Class
Left Bank*	0-3' High 0-20% (0-11") 21 · 50% (12-27") 51 · 100% + (38-45") 100% + (46" +) 3-6' High 0-20% (0-11") 21 · 50% (12-27") 51 · 100% (38-45") 100% (46" +)	Right Bank*	Riparian Vegetation[x] yes [ ] no If yes, list:  Augustic Vegetation [ ] yes [x] no If yes, list:  Associated Wetland [ ] yes [x] no If yes, list ID:  Aquatic Organisms [ ] yes [x] no If yes, list:  Riparian/Terrestrial Organisms [ ] yes [x] no If yes, list:  T&H Species [ ] yes [x] no If yes, list:	Major >100 ft  (x) Intermediate > 10 ft, <100ft  ( ) Minor <10 ft
0 - 20% (0-11°)		Photo 740 DS/Photo 741 PTU	W	





roject Name: Ball I	Iiil Wind Project			
Stream Name: LINNA MON Tributary		Date: 11 20/15		
County Chautauqu			State: New York	
Evaluator(s):	soberg S. Bucken	neyer	Data Point ID: 658	
	Stream Characteristics		Bottom Characteristics	
Perceptible Plow [y] yes [] no Flow Regime: [y] Perennial [] Intermittent [] Ephemeral Stream Flow Direction		Substrate Type:   Probed Stream Depth (if water present):     Bedrock     0 - 6"     7 - 12"     13 - 24"     13 - 24"     25 - 36"     37" +     Other   No Perceptible Depth		
	Bank Height and Slope		Associated Habitat	Size Class
Left Bank*	0-3 High 0 - 20% (0-11*) 21 - 50% (12-27*) 51 - 100% + (38-45*) 100%+(46*+) 3-6 High 0 - 20% (0-11*) 21 - 50% (12-27*) 51 - 100% (38-45*) 100% (46*+) 6. + High	Right Bank*	Riparian Vegetation [A] yes [ ] no If yes, list:  Aquatic Vegetation [ ] yes [A] no If yes, list:  Associated Werland [ ] yes [A] no If yes, list ID:  Aquatic Organisms [ ] yes [A] no If yes, list:  Riparian/Terrestrial Organisms [ ] yes [A] no If yes, list:  T&E Species [ ] yes [X] no If yes, list:	Major >100 ft     As   Intermediate >10 ft <100 ft     Minor <10 ft
0-20% (0-11°)   1   1   21-50% (12-27°)   1   1   1   1   1   1   1   1   1		Photo 743 US/E Photo 743 US/E Photo 744 DS/W Photo 745 RTL	1	



Stream Field ID: Stream A529	_
Data Point ID: DP-1/26/10 Date: 5/26/16	_
Project Name: Ball Hill Wind Project	
Evaluator(s): Ben UNTS, Nicole Duturel	
County: Chautauqua State: NY	
Stream Name: Unnamed this to Branch Creek	_
State Classified: Yes No X Not Applicable If Yes, Classification:	
Lat: 42.407665 Long: -79.114551	
Hydrologic Characteristics	
Flow Regime: Perennial X Intermittent Ephermeral	
Surface Water: Present X Absent Absent	
Perceptible Flow: Present X Absent	
Water Depth at Thalweg: 4" Wetted Perimeter Width: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_
Flow/Gradient Direction:	
Geomorphologic Characteristics	
Primary Substrate Class: 5, 1+ Chy	
Width	
at DP Max	
OHWM 5.0' 5.0'	
Top of Bank 10.0' 10.0'	
Left Right	
Bank Slope (H:V) 3/2.5 3/2.5	
Bank Stability Summary	
Left Bank: No areas of book instability / Milly regetated	
Right Bank: No ares of bank instability / fully regetated	
	2000
Habitati Characteristics	
Aquatic Vegetation Present: Yes No X	
Aquatic Organisms Observed: Yes No X	
Terrestrial Organisms Observed: Yes No X	



	Riparian	Characteristics
Riparian Vegetation	n Description (0' t	to 150' from TOB):
Right: <u>0</u> -2′ −	FAC/Emgant	veg, w crops (wheat)
2'-150	'- Cultivoked ro	w crops (wheat)
Left: <u>0 - 5′</u>	- FAC /Emerger	of Vey S Coups (whent)
<u>5'-150'</u>	- Cultivated Ru	U Coups (wheat)
Associated Wetland	d Present:	Yes X No No
If Yes, Describ	oe: <u>Wetland</u>	A 597
Associated Artificial	Drain Present:	Yes 🗙 No
If Yes, ID:	AD A510	
		Photos
	Direction	Notes/Additional Description
Upstream	5	
Dowsnstream	N	
Cross Channel	W	LRTL
0 1		Connectivity Notes:
Recieves hide	vicay from grac	enth Crook
Unramed T	houtary of Di	unon Creat
	<del> </del>	· · · · · · · · · · · · · · · · · · ·
	į	
	Supplemental	Notes & Comments:



Stream Field ID: ST - AS30
Data Point ID: DP-667 Date: 5/23/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virty and Miacle Dutch
County: Chautauqua State: NY
Stream Name: Unramed trib to Branch Crock
State Classified: Yes No No Not Applicable
If Yes, Classification:
Lat: 42, 408745 Long: -79, 110409
Hydrologic Characteristics
Flow Regime: Perennial X Intermittent Ephermeral
Surface Water: Present  Absent  Absent
Perceptible Flow: Present X Absent
Water Depth at Thalweg: 210 Wetted Perimeter Width: 411
Flow/Gradient Direction: East
Geomorphologic Characteristics
Primary Substrate Class: SIt / Clay,
Width
at DP Max
OHWM $50 + 50$
Top of Bank 8ft 10ft
Left Right
Bank Slope (H:V) 3 / 4 1 0.5
Bank Stability Summary
Left Bank: Moderate existion whin channel, more serve
@ outside meander bends
Right Bank: Minor erosian, stream has good access to
- Flood plain
Habitat Characteristics
Aquatic Vegetation Present: Yes No X
Aquatic Organisms Observed: Yes No X
Terrestrial Organisms Observed: Yes No X



	Riparian	Characteristics
Riparian Vegețation	n Description (0' t	to 150' from TOB):
Right: <u>Hard w</u>	and firest w	Selective timberhavest (beach)
		<i>(</i> ) ( )
	+ 90-150 : H	, , ,
Associated Wetlan	<u> </u>	Yes V No
	be: <u>Weflan</u>	
Associated Artificia		Yes No X
		Photos
	Direction	Notes/Additional Description
Upstream	5	
Dowsnstream	<u>N</u>	0:
Cross Channel	M	I RTL
	Jurisdictional	Connectivity Notes:
	Supplemental	Notes & Comments:
	· • • • • • • • • • • • • • • • • • • •	



Stream Field ID:	TREAM F	1531			
Data Point ID: DP-	6 <u>8</u> 5	Date:	5/24/16	7	
Project Name: Ball H	Hill Wind Pro	oject			
Evaluator(s):	V 1.275				-
County: Chautauqua			State:	NY	
Stream Name: Noc	aned tri	butern o	f Silver	Creek	
	No				
If Yes, Classific	ation:		· · · · · · · · · · · · · · · · · · ·		
Lat: <u>42,433901</u>		Long:	-79,13	0705	
	Hydrologic	c Characte	ristics		
Flow Regime: Perei	nnial 💢	Intermitte	ent	Epherme	eral
Surface Water:	Present	乂	Absent		,
Perceptible Flow:	Present		Absent		
Water Depth at Thalweg		<u>५⁴</u> We	tted Perime	eter Width:	<u>h'</u>
Flow/Gradient Direction:	<u> </u>	AST			
Ge	omorpholo	ogic Chara	cteristics		
Primary Substrate Cla	ss: <u> </u>	ravel			
	Wic	lth			
	at DP	Max			
OHWM	71	161			
Top of Bank	12'	18,			
	Left	Right			
Bank Slope (H:V)	1;(	134			
	Bank Sta	bility Sum	mary		
Left Bank:				very m.	:
	to colopia	France	81212 m Pr	Sent	
Right Bank:	Bon K	_	he with	very mir	-cr
	Habitat	<u>⇔∖</u> Characteri	stics	Proset	
Aquatic Vegetation Pres		Yes	□ No		
If Yes, Describe:	ent.		140		
Aquatic Organisms Obset If Yes, Describe:		Yes	× No		·
Terrestrial Organisms O If Yes, Describe:	bserved:	Yes	No	7	



Data Point ID: DP - 685

Riparian Characteristics				
Riparian Vegetation	•			
Right: 0'-150' Herdwood Forest mature ham locks				
Left: <i>o'_</i> _	150' Hardw	scool Forest-mature humbacks		
Associated Wetland If Yes, Descri	d Present: be: ယ <sub>ဧ</sub>	Land Land Land Land Land Land Land Land		
Associated Artificia	l Drain Present:	Yes No 🗡		
	Tara da de la companya del companya de la companya del companya de la companya de	Photos		
	Direction	Notes/Additional Description		
Upstream	M			
Dowsnstream	E			
Cross Channel	7	ATL .		
	Jurisdictional	Connectivity Notes:		
tr	ibutory of	Silver (seek		
	J			
	<u> </u>			
	· · · · · · · · · · · · · · · · · · ·			
	Supplemental	Notes & Comments:		



Stream Field ID: Stream PS32
Data Point ID: DP- 686 Date: \$124116
Project Name: Ball Hill Wind Project
Evaluator(s): B. V.275
County: Chautauqua State: NY
Stream Name: unnamed tributor of Silver Creek
State Classified: Yes No X Not Applicable
If Yes, Classification:
Lat: 42,434037 Long: -79,130850
Hydrologic Characteristics
Flow Regime: Perennial  Intermittent  Ephermeral
Surface Water: Present X Absent
Perceptible Flow: Present X Absent
Water Depth at Thalweg: ч" Wetted Perimeter Width: ч"
Flow/Gradient Direction: EnsT
Geomorphologic Characteristics
Primary Substrate Class: 6 ravel
Width
at DP Max
OHWM 6' 8'
Top of Bank 8' \c'
Left Right
Bank Slope (H:V)
Bank Stability Summary
Lett Bank: Bonk stuble, no ension Present
Right Bank: Bank Stable, No ension present
Habitat Characteristics
Aquatic Vegetation Present: Yes No 🔀  If Yes, Describe:
Aquatic Organisms Observed: Yes No X  If Yes, Describe:
Terrestrial Organisms Observed: Yes No 🗡



Data Point ID: DP - 686

	Riparian	Characteristics			
Riparian Vegetation	n Description (0' t	o 150' from TOB):			
Right: 0'-	Right: 0'-150' Mature Hemlack Forest				
Left: O'	-150' mate	re Hemlack Forest			
Associated Wetland	d Present:	Yes 😕 No			
If Yes, Descri	be: <u>ယ</u> င	Hand A608			
Associated Artificia	l Drain Present:	Yes No 🗡			
If Yes, ID:					
		Photos			
	Direction	Notes/Additional Description			
Upstream	w				
Dowsnstream	い E				
Cross Channel	2	RTL			
P = 22	Jurisdictional	Connectivity Notes:			
Tribut	on of Silver	Creek			
	Supplemental	Notes & Comments:			
100000000000000000000000000000000000000					
	······································				
<del></del>					



Stream Field ID: 57	tream As	33				
Data Point ID: DP-	707	Date:	5/26/16			
Project Name: Ball H	Hill Wind Pro	_	· · · · · · · · · · · · · · · · · · ·			
Evaluator(s):						
County: Chautauqua			State: NY			
Stream Name:	Silver C	reek				
State Classified: Yes	× No	Not A	Applicable			
If Yes, Classific	ation:	7				
Lat: <u>42,45/88/</u>		Long:	-79.103028			
	Hydrologic	: Characte	ristics			
Flow Regime: Perei	nnial 🗡	Intermitte	ent Ephermeral			
Surface Water:	Present [	×	Absent			
Perceptible Flow:	Present	×	Absent			
Water Depth at Thalweg	<u></u>	o.s' We	tted Perimeter Width:			
Flow/Gradient Direction:	<u> </u>	AST				
Ge	omorpholo	gic Chara	cteristics			
Primary Substrate Cla	ss: Gra	vel Clarge	)			
	Wid	th				
	at DP	Max				
OHWM	น'	30'				
Top of Bank	23'	'3o'				
	Left	Right				
Bank Slope (H:V)	2:1	2:1				
	Bank Sta	bility Sum	mary			
			on with Significant			
	terbonie N		3			
Right Bank:	Minor Be	nk eros	on with Significant			
Pish	rbne nour					
	Habitat 0	Sharacteri	stics			
Aquatic Vegetation Pres If Yes, Describe:	ent:	Yes	No ×			
Aquatic Organisms Obs	erved:	Yes	X No			
If Yes, Describe:	CAODIS Fly, S	tonofly, m	yely, led backed solamander in mon	٠:		
Terrestrial Organisms O	J	Yes	No ×			



Data Point ID: DP - 707

	Riparian	Characteristics		
Riparian Vegetation	n Description (0' t	to 150' from TOB):		
Right: Forested and Should Riporian 0'-150'				
Left: Fores	ted and show	b Riparian species 0'-150'		
		•		
Associated Wetland If Yes, Descri		Yes No 😕		
Associated Artificia	l Drain Present:	Yes 😕 No		
If Yes, ID:	AD-514			
		Photos		
	Direction	Notes/Additional Description		
Upstream	W			
Dowsnstream	E			
Cross Channel	7	RTL		
	Jurisdictional	Connectivity Notes:		
	Supplemental	Notes & Comments:		
Sitner				
10stnam	of the column	regular maintenance dredgings		
i sociati e	coren within	the stream down gradient		
of the cu	lust cross.re	<u> </u>		
		<b>V</b>		



Stream Field ID: STREAM A534
Data Point ID: DP- 712 Date: 5126116
Project Name: Ball Hill Wind Project
Evaluator(s): B. V. RTS, S. Buckermeyer
County: Chautauqua State: NY
Stream Name: Unnomed Tributory of Silver Creek
State Classified: Yes 🗓 No Not Applicable
If Yes, Classification:
Lat: 42.456 515 Long: -79.104645
Hydrologic Characteristics
Flow Regime: Perennial  Intermittent  Ephermeral
Surface Water: Present
Perceptible Flow: Present  Absent
Water Depth at Thalweg: <u>6''</u> Wetted Perimeter Width: <u>+'</u>
Flow/Gradient Direction: East
Geomorphologic Characteristics
Primary Substrate Class: Gravel / Cobble
Width
at DP Max
OHWM 13' 15'
Top of Bank 9' 25'
Left Right
Bank Slope (H:V) 2:15' Z'S'
Bank Stability Summary
Left Bank: Left bank is stable upstream of
existing culmit and unstable incised below
Right Bank: Pight Bank is stable upstream of existing
ludgest and unstable I incided below
Habitat Characteristics
Aquatic Vegetation Present: Yes No X If Yes, Describe:
Aquatic Organisms Observed: Yes Y No
If Yes, Describe: Coopis Flies, Stone Flies
Terrestrial Organisms Observed: Yes No 😕



Data Point ID: DP - ティて

	Riparian	Characteristics
Riparian Vegetation	n Description (0' t	o 150' from TOB):
Right: 0'-25	Sharb Riper	in species regetation and @75-15
huy	Field	-
Left: <u>ወጐ </u> ገና	5' shoub and	Forest buffer onen with an one
moved	For beechines	, 75'-150' hay field
Associated Wetland If Yes, Descri		Yes No 🔽
Associated Artificia	l Drain Present:	Yes 🗶 No
If Yes, ID:	A0-517	
	The state of the s	Photos
	Direction	Notes/Additional Description
Upstream	i,J	
Dowsnstream	E	
Cross Channel	_ ~	RTL
	Jurisdictional	Connectivity Notes:
	<u> </u>	
4.1	Supplemental	Notes & Comments:



Stream Field ID:	STREAM A535	
Data Point ID: DP	2-719 Date: 5/27/16	
Project Name: Ball		
	· VIRTS N. Dutcher	
County: Chautauqua		
	U.T. of Silver Creek	
	No X Not Applicable	
If Yes, Classif		
Lat: 42, 439573	Long: -79.130699	
	Hydrologic Characteristics	
Flow Regime: Per	rennial 😕 Intermittent 🔲 Epherme	ral
Surface Water:	Present	,
Perceptible Flow:	Present × Absent	
Water Depth at Thalwe	eg: <u>46"</u> Wetted Perimeter Width:	1'
Flow/Gradient Direction	n: North	
G	Geomorphologic Characteristics	
Primary Substrate C	lass: Silt	
	Width	
	at DP Max	
OHWM		
Top of Bank		
•	Left Right	
Bank Slope (H:V	<u> </u>	
	Bank Stability Summary	
Left Bank		l c
	( Bonk is Vegetated and Very Stab	· · ·
Right Bank	( Bank is vegetated and very s	table
	Habitat Characteristics	
Aquatic Vegetation Pre If Yes, Describe:	esent: Yes No 🗡	
Aquatic Organisms Ob If Yes, Describe:	served: Yes No 🗴	
Terrestrial Organisms (	Observed: Yes No X	



Data Point ID: DP - 719

Riparian Characteristics				
Riparian Vegetation Description (0' to 150' from TOB):				
Right: within Power Row-herbaceas FACULTATIVE and				
weett.	er plants "wit	hin forst, Shub and Tree species		
Left:				
Associated Wetlan		Yes X No		
If Yes, Descri	be: wetlan	J A623 (PFO, PEM WITHIN ROW)		
Associated Artificia	l Drain Present:	Yes No 🗡		
If Yes, ID:				
	and the second	Photos		
	Direction	Notes/Additional Description		
Upstream	S			
Dowsnstream	7			
Cross Channel	iu	RTL		
	Jurisdictional	Connectivity Notes:		
	Supplemental	Notes & Comments:		



Stream Field ID: STREET A537  Data Point ID: DP-747 Date: 61816  Project Name: Ball Hill Wind Project  Evaluator(s): B Yiers, N. Dutcher  County: Chautauqua State: NY  Stream Name: L. T. OF Silver Creek  State Classified: Yes No X Not Applicable  If Yes, Classification:	- - - -
Lat: 42.437886 Long: -79. 121326	-
Hydrologic Characteristics	
Flow Regime: Perennial  Intermittent  Ephermeral  Surface Water: Present  Absent  Absent  Absent   Perceptible Flow: Present  Absent   Water Depth at Thalweg (ft.):   Wetted Perimeter Width (ft.):   Flow/Gradient Direction:    Intermittent  Ephermeral    Ephermeral    Ephermeral    Ephermeral    Flow Absent    Verteen    Ephermeral    E	]
Geomorphologic Characteristics	
Primary Substrate Class: Grave 1   Silt	≌1
Width (ft.)	
at DP Max	
OHWM 2' 5' Top of Bank 4' 12'	
Top of Bank Lu' Luz' Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:	
Left: 1': 2.5'	
Right: 1': 2.5'	
Bank Stability Summary	
Right: Stream banks are heavily impacted	<b>-</b>
and are nearly void of Vegetation	<u>k</u> -<
Left: Born 1814 and Right backs are very	_
west the thoughout the news	
	_



Data Point ID: DP-747

Part of W. P.	Habitat Cha	aracteri	stics	
Aquatic Vegetation If Yes, Descri	A STATE OF THE STA	Yes	□ No X	
Aquatic Organisms If Yes, Descri		Yes	No x	
Terrestrial Organisi If Yes, Descri		Yes	No_★	
	Riparian Ch	aracter	istics	
Riparian Vegetation Right: 0'-	n Description (	0' to 150	)' from TOB):	ture
If Yes, ID: Associated Artificia	<u>یں د</u> I Drain Presen	۲es ۱ <u>، مرا</u> t: Yes	1	
If Yes, ID:	<i>Ap - 5</i> °. Pho			
Upstream Dowsnstream Cross Channel Jur		Note RTL		escription
Sup	plemental No	tes & C	omments:	
	· · · · · · · · · · · · · · · · · · ·			



Stream Field ID:	T-A538		
Data Point ID: DP	-750	Date:	6/8/16
Project Name: Bal	HILL WIRD Pr	viect	
Evaluator(s): Beco	Lists and	Micole	Dutcher
County: Chautau	yua		State: NY
Stream Name:	Irnamed.	thousery	to Silver Creek
State Classified: Yes	No 🗓	` Not À	Applicable
If Yes, Classific	ation:		
Lat: 47.44 7305		Long: _	-79, 122743
	Hydrologic (	Characte	ristics
Flow Regime: Perei	nnial 💢	Intermitte	ent Ephermeral
Surface Water:	Present >		Absent
Perceptible Flow:	Present	. 1	Absent X
Water Depth at Thalweg	1		ted Perimeter Width: Z'
Flow/Gradient Direction:	$\frac{\mathcal{E}_{\Delta\Sigma}}{\mathcal{E}_{\Delta\Sigma}}$		
			otovietlos
La contraction of the contractio	omorpholog		
Primary Substrate Cla			rel (abbles
	Width		
	at DP	Max	
OHWM	7'	8'	
Top of Bank	91	10'	
	Left	Right	
Bank Slope (H:V)	211 0	२ : ।	
	Bank Stab	ility Sum	mary
Left Bank:	Moderately	Stable,	Some forms stablishing bank
<u>_ bu</u>	- Some ensi	on duni	ing highPlow periods
Right Bank:	个.5%	mo.	J , ,
	Habitat Cl	naracteris	stics
Aquatic Vegetation Pres If Yes, Describe:	ent:	Yes [	No X
Aquatic Organisms Obs If Yes, Describe:	erved:	Yes [	No ×
Terrestrial Organisms O	bserved:	Yes	No X



Data Point ID: DP-750

	Riparian	Characteristics
Riparian Vegetation	n Description (0'	to 150' from TOB):
Right: 0-10'	Flood plain me	etland
10-150	y Upland mixed	a deciduous conifrous forest with underston
	Flow plan with	
51-15	01 Upland mix	ed deciduous Conifeous Fort w Underst
Associated Wetlan		
	be: Wetlan	
Associated Artificial If Yes, ID:	l Drain Present:	Yes No
		Photos
	Direction	Notes/Additional Description
Upstream	W	
Dowsnstream		
Cross Channel	N	RAL
	Jurisdictional	Connectivity Notes:
	·	
		<u> </u>
	Supplemental	Notes & Comments:
Stream stark		nd A548 and is outlet for
		r present your round).
	0	
***	····	



Stream Field ID: ST - A \$39  Data Point ID: DP-761 Date: 0/9/16  Project Name: Ball Hill Wind Project  Evaluator(s): Ben with and New Durk/  County: Chautauqua State: NY  Stream Name: U.T. of Welnut Creek  State Classified: Yes No X Not Applicable  If Yes, Classification:
Lat: 42.47-8907 Long: -39.149567
Hydrologic Characteristics
Flow Regime: Perennial Intermittent Ephermeral
Surface Water: Present Absent X
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.):
Wetted Perimeter Width (ft.):
Flow/Gradient Direction:
Geomorphologic Characteristics
Primary Substrate Class: 514 Same Cooldes
Width (ft.)
at DP Max
OHWM NIA NIA
Top of Bank 3' 10'
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Bank Stability Summary
Right: Smewhat stable, son nour but editionce of
ensor and undecutting during high flow
3 )
Left: Syme at above t



Data Point ID: DP-761

	Habitat Cha	aracteri	stics	
Aquatic Vegetation If Yes, Descri	A second control of the second control of th	Yes	□ No 🔀	
Aquatic Organisms Observed: Yes No X If Yes, Describe:				
Terrestrial Organis If Yes, Descri		Yes	NoX	·
	Riparian Ch	aracter	istics	
	! Decide	wws Fo	D' from TOB): Mest   Secondon Nittu herbuca	1 .1
Left: <u>০ - ৪০'</u> ১৩ - ۱১৫	Deciduous/o	econday ) moved	growth Forest,	little under
Associated Wetland If Yes, ID:	d Present:	Yes	No X	
Associated Artificia If Yes, ID:	l Drain Presen	t: Yes	s Νο χ	
Called Sanctife L	Pho	tos		
Section 1	Direction	Note	s/Additional De	scription
Upstream	3			
Dowsnstream	W			
Cross Channel	S	RBL	and the second of the second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Jur	isdictional Co		ity Notes:	
		13		<u> </u>
	1 2 1 4		1. <b>1</b> 1. <b>1</b> 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
- Sup	plemental No	tes & C	omments:	
		<del></del>		



Stream Field ID: Streen ST-AS40
Data Point ID: DP- 762 Date: UIGILO
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virts and Nicole Dutcher
Stream Name: WT of Calbut Creek
Stream Name:     No   Not Applicable
If Yes, Classification:
Lat: 47,479 370 Long: 79, 149170
Hydrologic Characteristics
Flow Regime: Perennial X Intermittent Ephermeral
Surface Water: Present X Absent
Perceptible Flow: Present X Absent
Water Depth at Thalweg (ft.):3"
Wetted Perimeter Width (ft.):
Flow/Gradient Direction: West
Geomorphologic Characteristics
Primary Substrate Class: <u>Belock</u>
Width (ft.)
at DP Max
OHWM $3'$ $6'$ Top of Bank $20'$ , $40'$
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 90%
Right: $902$
Bank Stability Summary
Right: Moderatory Stable, deep Channel and very Stoop drop off but bring held up by bod nock byers and nootr of three growing on edge of top of back and on sides of back
but bring held up by bed sock byers and notr of
three growing on edge at topot back and on sides of back
Left: Some as right Side 1



Data Point ID: 702

Habitat C	haracteristics
Aquatic Vegetation Present:  If Yes, Describe:	Yes No X
Aquatic Organisms Observed:  If Yes, Describe:	Yes No
Terrestrial Organisms Observed If Yes, Describe:	
Riparian C	haracteristics
	(0' to 150' from TOB):  Understay and ground cover
	deciduous Forest a few conifers (Horland) nderstay and ground cover
Associated Wetland Present:  If Yes, ID:	Yes No X
Associated Artificial Drain Prese	ent: Yes No X
Pł	notos
Direction	Notes/Additional Description
Upstream &	
Dowsnstream   Cross Channel   S	
01000 0114111101	Connectivity Notes:
ourisulcuonar c	office divity notes:
Supplemental N	lotes & Comments:
	nel with som upland islands
throughout.	
	or scores bedrock on banks,
Stream has go ended large	area, bakis about 20' wide but
	+, Slyx temsine mor of 45? Slyc
	sint but bank vertice height is
SHII about 20'-30'	2
- about 60' drap just and	e about 10' inside of Study area, w/ waterfull



Stream Field ID: ST-AS41  Data Point ID: DP-765 Date: 4916  Project Name: Ball Hill Wind Project  Evaluator(s): Ban Virts and Nicol Duthor  County: Chautauqua State: NY  Stream Name: h.T. of wahner create  State Classified: Yes No X Not Applicable If Yes, Classification:  Lat: 42.481776 Long: -79,149353
Hydrologic Characteristics
Flow Regime: Perennial Intermittent Ephermeral
Surface Water: Present Absent X
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.): N/A
Wetted Perimeter Width (ft.): <u>N/A</u>
Flow/Gradient Direction:
Geomorphologic Characteristics
Primary Substrate Class: SILF, grand, Contain
Width (ft.)
OHWM which 7'
OHWM No Control of Bank 7' 9'
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Right: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Bank Stability Summary
Right: outdere of enough, sloughing and
undercutting at meander points, little ground three
regetation to stabilize bank
Left: Same as above T



Data Point ID: 765 Habitat Characteristics **Aquatic Vegetation Present:** No X Yes If Yes, Describe: Aquatic Organisms Observed: Yes No x If Yes, Describe: Terrestrial Organisms Observed: Yes No X If Yes, Describe: Riparian Characteristics Riparian Vegetation Description (0' to 150' from TOB): Right: 0-150' - Voland decidious Secondar mostly Left: 0-150' - Upland moved **Associated Wetland Present:** Yes No x If Yes, ID: Associated Artificial Drain Present: Yes No X If Yes, ID: Photos Direction Notes/Additional Description Upstream Ë Dowsnstream W **Cross Channel** R tol Jurisdictional Connectivity Notes: Supplemental Notes & Comments:



Stream Field ID: ST-A542  Data Point ID: DP-700 Date: 6910  Project Name: Ball Hill Wind Project  Evaluator(s): Ben Virts and Micole Durcher  County: Chautauqua State: NY  Stream Name: 4.T-o+ website Creeke  State Classified: Yes No X Not Applicable  If Yes, Classification:  Lat: 42.482581 Long: -79.14368
Hydrologic Characteristics
Flow Regime: Perennial Intermittent Ephermeral X  Surface Water: Present Absent X  Perceptible Flow: Present Absent X  Water Depth at Thalweg (ft.): NA  Wetted Perimeter Width (ft.): NA  Flow/Gradient Direction:
Geomorphologic Characteristics
Primary Substrate Class: SUL NOVE
Width (ft.) at DP Max  OHWM 3/ 3'  Top of Bank 5' 7'  Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: \\'\\\
Right: 1:1
Right: Stubue at data point and upstream, becomes very steep large vertices banks Journstream and off sity.
Left: Sam at above 7



Data Point ID: 7/46 Habitat Characteristics No 🗸 Aquatic Vegetation Present: Yes If Yes, Describe: Aquatic Organisms Observed: Yes Nol X If Yes, Describe: Terrestrial Organisms Observed: Yes Nolx If Yes, Describe: Riparian Characteristics Riparian Vegetation Description (0' to 150' from TOB): Right: 0-150' - Deciduous hordwood Forest. Sugar mople, yellow birch and she hark hickory Same as above 1 Left: No X **Associated Wetland Present:** Yes If Yes. ID: Associated Artificial Drain Present: Yes Nol 🗸 If Yes, ID: **Photos Direction** Notes/Additional Description Upstream Dowsnstream N Cross Channel Ë RDL Jurisdictional Connectivity Notes: Stream within Study area tuns into intermittent -toward Stream Supplemental Notes & Comments:



Stream Field ID: ST-A 5 4 3  Data Point ID: DP-707 Date: 40 10 10  Project Name: Ball Hill Wind Project  Evaluator(s): Ban 4 75 and Nicole Outher  County: Chautauqua State: NY  Stream Name: Unnamed Tributary of Walnut Creek  State Classified: Yes No X Not Applicable  If Yes, Classification:
Lat: 42.483904 Long: -79.149354
Hydrologic Characteristics
Flow Regime: Perennial Intermittent Ephermeral
Surface Water: Present Absent X
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.): NA
Wetted Perimeter Width (ft.):
Flow/Gradient Direction: North
Geomorphologic Characteristics
Primary Substrate Class:
Width (ft.)
at DP Max
OHWM 4' 5'
Top of Bank ω' ΙΟ'
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Right: (51
Bank Stability Summary
Right: Shightly Stable, bedrock and noots holding itup
Right: Shiphtly Stable, bedrock and noots holding it up but major scaring and undercutting at meandering paints
Left: Sam ar above 1



Data Point ID: フロラ

	Habitat Cha	aracteristics	The all the second
Aquatic Vegetation If Yes, Descri		Yes	No 🔀
Aquatic Organisms If Yes, Descril		Yes	No 🔀
Terrestrial Organism If Yes, Descril			No
	Riparian Ch	aracteristics	
Riparian Vegetation Right: 0-150	- Deciduos	beswhood zi	TOB): forest about 86% costony and grand cover
Left:	Som as	- above 1	
Steep		starting ac	
Associated Wetland If Yes, ID: Associated Artificial If Yes, ID:			No X
	Pho	itos.	
Upstream Dowsnstream Cross Channel Juri	Direction S N W sdictional Co	Notes/Addi	tional Description
Deop change mojer tums	el up stre	lage sedim	وسر



Stream Field ID:  Data Point ID:  Project Name:  Ball Hill Wind Project  Evaluator(s):  County:  Chautauqua  State:  NY  Stream Name:  Unnamed Tributory of Welnut Creek  State Classified:  If Yes, Classification:  Lat: 47.484673  Long: -79.149581
Hydrologic Characteristics
Flow Regime: Perennial Intermittent Ephermeral X
Surface Water: Present Absent X
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.): N/A
Wetted Perimeter Width (ft.): NA
Flow/Gradient Direction: West
Geomorphologic Characteristics
Primary Substrate Class: Si'H
Width (ft.)
OHWM \' 2'
Top of Bank $\frac{3}{2}$
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Right: \\'.\
Bank Stability Summary
Right: Very Stable, bank slope about 45% with not a high bank bank stabilized by herbacour vegetation
man and man of persons of
Left: Same as above 1



Data Point ID: 770 Habitat Characteristics Aquatic Vegetation Present: No X Yes If Yes, Describe: Aquatic Organisms Observed: No x Yes If Yes, Describe: Terrestrial Organisms Observed: Yes X No If Yes, Describe: Bards, chiomuniks Riparian Characteristics Riparian Vegetation Description (0' to 150' from TOB): Right: 0-150' Deciduous hardward Forest, with little Shows Sons lover but 60% anound cover Som as above 7 Left: Yes x **Associated Wetland Present:** No If Yes, ID: A640 No $\times$ Associated Artificial Drain Present: Yes If Yes, ID: Photos Direction Notes/Additional Description Upstream 5 Dowsnstream M Cross Channel W RAOL Jurisdictional Connectivity Notes: Ephemeal dain runk to wetlood Ale40 that then drains off six to dikh alon rail road affrite most likely dirang to perennial Stron Which to the west. Supplemental Notes & Comments:



Stream Field ID:  Data Point ID:  DP-771  Date: 10/10/10  Project Name:  Ball Hill Wind Project  Evaluator(s):  County: Chautauqua  State: NY  Stream Name:  Variable Tributory of Warnet Creek  State Classified: Yes No X Not Applicable  If Yes, Classification:  Lat: 47.48 5990  Hydrologic Characteristics
Flow Regime: Perennial Intermittent X Ephermeral
Surface Water: Present X Absent
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.): <u>しゅ</u> (らん)
Wetted Perimeter Width (ft.): 3'
Flow/Gradient Direction:
Geomorphologic Characteristics
Primary Substrate Class: Sit   Cabaes   grant
Width (ft.)
at DP Max
OHWM 3' 4' Top of Bank 4' 6'
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1\2
Right: 1:3
Bank Stability Summary
Right: Moderately stable, Som ension due to book stops and height, no real herbacon veg holding substrate evidence of underculting at meander points
and height, no real hertocan veg holding substrate
Left:



Data Point ID: 771 Habitat Characteristics Aquatic Vegetation Present:  $No\chi$ Yes If Yes, Describe: Aquatic Organisms Observed: Yes No If Yes, Describe: Terrestrial Organisms Observed: Yes If Yes, Describe: Bros + chiamunks Riparian Characteristics Riparian Vegetation Description (0' to 150' from TOB): Right: 0'-150' - Decidrous had wood Forest Left: 0'-150'- Declavous hardwas Forest **Associated Wetland Present:** Yes No X If Yes, ID: **Associated Artificial Drain Present:** Yes If Yes, ID: Photos Notes/Additional Description Direction Upstream Dowsnstream N **Cross Channel** Rtol **Jurisdictional Connectivity Notes:** Supplemental Notes & Comments: Edremal hostroom from duteroint and downstream



Stream Field ID:  Data Point ID:  Project Name:  Ball Hill Wind Project  Evaluator(s):  County:  Chautauqua  State:  NY  Stream Name:  Vnnamed tributors of Welnut Green  If Yes, Classification:
Lat: 42.48 7339 Long: -79,149348
Hydrologic Characteristics
Flow Regime: Perennial Intermittent X Ephermeral
Surface Water: Present X Absent
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.): 0.25
Wetted Perimeter Width (ft.): 2'
Flow/Gradient Direction: North-
Geomorphologic Characteristics
Primary Substrate Class: Silt Clay + cobbles grace
Width (ft.)
OHWM 4' 6'
Top of Bank 5' 8'
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 153
Right: 1.3
Right: Made at he stable worth MSK laus Gol Some
Right: Moderately stable, Mostly Nok layers and some Nots preventing ension, serieous undercutting @
meander points du to steep gradient
Left: Some as above 9



Data Point ID: 772

and the second second		And the second s
	Habitat Cha	aracteristics
Aquatic Vegetation If Yes, Descril		Yes No X
Aquatic Organisms If Yes, Descril	A Company of the Comp	Yes No No
Terrestrial Organism		· International International
	Riparian Ch	aracteristics
Riparian Vegetation Right:		0' to 150' from TOB): ป เมออง โนเละ
. ·		
Left: Oca	duous har	duced frost
Leit. Oct	ours rap	S) MEDO TO TO TO
Associated Wetland If Yes, ID:	l Present:	Yes No
Associated Artificial	Drain Presen	t: Yes No X
	Pho	otos.
	Direction	Notes/Additional Description
Upstream	5	
Dowsnstream	N	
Cross Channel	$\sim$	0 p L
Juri	sdictional Co	onnectivity Notes:
<u></u>	•	· · · · · · · · · · · · · · · · · · ·
Sup	plemental No	ites & Comments:
		· · · · · · · · · · · · · · · · · · ·



Stream Field ID: STREAM ASYT  Data Point ID: DP-781 Date: 6/22/16  Project Name: Ball Hill Wind Project  Evaluator(s): B.V.275 J. Secular  County: Chautauqua State: NY  Stream Name: 6.T. of Silver Creek  State Classified: Yes X No Not Applicable  If Yes, Classification: C  Lat: 42.5683579 Long: -79.1580228
Hydrologic Characteristics
Flow Regime: Perennial Intermittent X Ephermeral Surface Water: Present Absent X  Perceptible Flow: Present Absent X  Water Depth at Thalweg (ft.): NA  Wetted Perimeter Width (ft.): NA
Flow/Gradient Direction: South
Geomorphologic Characteristics  Primary Substrate Class: S; (+) clay  Width (ft.) at DP Max  OHWM 5' 6'  Top of Bank 11' 13'  Bank Slope [Reported as % or Horizontal:Vertical(H:V)]: Left: 3: Z Right: 3: Z
Bank Stability Summary
Right: Bank is fully vegetated and Stable  Left: Same or Right Bank



Data Point ID: DP-781

	Habitat Cha	aracteri	stics	
Aquatic Vegetation If Yes, Descri		Yes	☐ No ×	
Aquatic Organisms If Yes, Descri		Yes	Nox	
Terrestrial Organis If Yes, Descri		Yes	No ∠	
	Riparian Ch	aracter	istics	
	1 FACULTATION on on or	ve and	facilitation	
	so' cultiv		•	
Associated Wetland If Yes, ID: Associated Artificia If Yes, ID:	mattera		corrects to	streem atteit
	Pho	tos	ta di di	
Upstream	Direction	Note	s/Additional [	Description
Dowsnstream	5			
Cross Channel	E	LTR		
Jur	sdictional Co	nnectiv	ity Notes:	
S		4 9 6		#13
- Ֆար	plemental No	tes a c	omments.	
		····		
			· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·				

APPENDIX C
DITCH DATA FORMS



Ditch Fie	eld ID: 01-A200				
Data Poir					
Project N	Name: Ball Hill Wind Project				
Evaluato					
County:	Chautauqua State: NY	_			
Jurisdiction	ional: Yes No No				
Lat: <u>보</u> る	5,436347 Long: -79,135834	_			
	Jurisdictional Determination Criteria				
Yes No	The state of the s	_			
7	Defined Bed and Bank Present				
X	Ordinary High Water Mark Present	_			
1	Direct or Indirect Connection to a Traditional Navigable Water	_			
- e -	4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below	)_			
Х	a) Presence of Relatively Permanent Flowing or Standing     Water				
	b) A Natural Stream That Has Been Altered				
	c) Excavated in a Jurisdictional WOTUS				
	d) Connects Two or More Jurisdictional WOTUS				
Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW					
	Hydrologic Characteristics				
Surface V	Water: Present Absent				
	ble Flow: Present Absent 🗴				
The second second second	epth at Thalweg: N/A Wetted Perimeter Width: N/A	7			
	adjent Direction: 9 out	4			
	Geomorphologic Characteristics				
Primary S	Substrate Class:	_			
	Width				
	at DP Max				
	OHWM 25' 25				
	Top of Bank 3' 4.5'				
200	Left Right				
Ba	ank Slope (H:V)				
	Bank Stability Summary				
	Left Bank: Jod alabolined				
	ranco standino de ambiento de la compansión de la compans				
	Right Bank: That alaka la sa				



Data Point ID: DP- 203

	Habita	t Charact	eristics
Aquatic Vegetation If Yes, Descri		Yes	□ No 🔀
Aquatic Organisms If Yes, Descri		Yes	No ×
Terrestrial Organis If Yes, Descri		Yes	□ No ⊠
	Riparia	n Charac	teristics
Associated Wetlan If Yes, Descri Associated Artificia	ulis glo d Present: be:	Yes _	No Yes No >
If Yes, ID:		Photos	
	Direction	T	Description
Upstream	N		
Dowsnstream	5		
Cross Channel	~	tota	A
	Supplementa	al Notes	& Comments:
to chain at	ut zhrava Listarely	homa py gre Leffer	Los Connects with



Ditch	Fiel	dID: D	tch-G	1		
Data	Poin	LID: DP-	237	Date	5/25/16	
Proje	ct Na	me: Ball F	lill Wind Pr			
	uator(		e Jour	00		
Cour	ity:	Chautauqua			State: NY	
Juris	dictio	nal: Yes [	≥ No			
Lat:	42.	410551		Long:	-79,169061	
		Juris	dictional l		ation Criteria	
Yes	No		Ju	risdiction	nal Attribute	
7		1) Defined Be				
$\times$		2) Ordinary H				
1		Market and the second			a Traditional Navigable Water	
					t Satisfy At Least 1 of 5 Below)	
X		a) Presence of Relatively Permanent Flowing or Standing     Water			anent Flowing or Standing	
		b) A Natura	Stream T	hat Has B	een Altered	
		c) Excavate	d in a Juris	sdictional '	WOTUS	
		The second secon	tion in the last and the last a	and the second second	lictional WOTUS	
X		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW				
			Hydrolog	ic Charac	teristics	
Surfa	ce W	later:	Present	¥	Absent	
Perce	entible	e Flow:	Present	X	Absent	
	17.1	oth at Thalweg:	and the second s	We	etted Perimeter Width: /6- 00	
	The state of the s	lent Direction:	N			
		Ge	omorphol	ogic Cha	racteristics	
Prima	ary Si	ubstrate Class:	7117,0-1401-00-			
		ſ	Wic	ith		
			at DP	Max		
OHWM		71	7!			
		Top of Bank	91	7.		
		1	Left	Right	3	
	Ban	k Slope (H;V)[	1:3	1:1		
			Bank St	ability Su	mmary	
		Left Bank:	Dross	20		
		Right Bank:	Stal	120		



Data Point ID: DP- 337

	Habitat	Characteristics
Aquatic Vegetation f		Yes No O arms
Aquatic Organisms ( If Yes, Describ		Yes X No
Terrestrial Organism If Yes, Describ		Yes No 🔀
	Riparian	n Characteristics
Riparian Vegetation Right: A Do		The state of the s
Left: centre	- oly	e Racus De glorerata
Associated Wetland If Yes, Describ Associated Artificial If Yes, ID: (	e: <u>Justla.</u> Drain(s) Prese	
11 165, 10.	MAN CO	Photos
1	Direction	Description
Upstream	S	
Dowsnstream	N	
Cross Channel	W	Relate bond
	Supplementa	al Notes & Comments:
Ontension a	Bareno	en ly colemental stated



Ditch Field ID: DT - A301
Data Point ID: DP-051 Date: 5/06/16
Project Name: Ball Hill Wind Project
Evaluator(s): Jame Sauce
County: Chautauqua State: NY
Jurisdictional: Yes X No
Lat: 42.393015 Long: -79.141955
Jurisdictional Determination Criteria
Yes No Jurisdictional Attribute
1) Defined Bed and Bank Present
2) Ordinary High Water Mark Present
3) Direct or Indirect Connection to a Traditional Navigable Water
4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
a) Presence of Relatively Permanent Flowing or Standing Water
b) A Natural Stream That Has Been Altered
c) Excavated in a Jurisdictional WOTUS
d) Connects Two or More Jurisdictional WOTUS
e) Drains Natural Water Bodies (including wetlands) into the
tributary system of a TNW
Hydrologic Characteristics
Surface Water: Present Absent >
Perceptible Flow: Present Absent A
Water Depth at Thalweg: N/A Wetted Perimeter Width: N//
Geomorphologic Characteristics
Primary Substrate Class: Quy / 9 word / Mrance / 1006660
Width
at DP Max
OHWM 1'
Top of Bank (A711 A711
Left Right
Bank Slope (H:V)
Bank Stability Summary
Left Bank: タオッシュレ
Right Bank:



	Habita	t Characte	ristics
Aquatic Vegetation if Yes, Descrit	Present:	Yes	No 🔀
Aquatic Organisms If Yes, Descrit		Yes	No 😾
Terrestrial Organism If Yes, Describ	ns Observed: be:	Yes	No 🗡
	Riparia	n Characte	ristics
Left: 9,000 Associated Wetland If Yes, Describ Associated Artificial	Present: e:	Yes	No 🔀
If Yes, ID;	Diam(s) Flese	nu.	Yes No No
		Photos	
	Direction		Description
Upstream	W		TV.
Dowsnstream Cross Channel	E Al	Δ.	
- COS ONGINION	Cumplement	R he	
	Supplementa		omments:
ricus wito	51-A3	04	



Ditch	Fiel	d ID: _DT-	EL EXT		
A 100 G TO	Point	12712			5/3/11/6
	ct Na	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	ill Wind Pr	oject	
	uator(	The state of the s	0 90m	27	25-17-25/04
Coun	ity:	Chautaudua			State: NY
Juris	dictio	nal: Yes [	火 No		
Lat:	VA.	407138		Long:	-19.139979
		Juris	dictional l	Determina	ation Criteria
Yes	No				al Attribute
1		1) Defined Be			
X		2) Ordinary H			
1					a Traditional Navigable Water
					Satisfy At Least 1 of 5 Below)
X		a) Presence Water	of Relativ	ely Perma	nent Flowing or Standing
		b) A Natura	Stream T	hat Has B	een Altered
		c) Excavate	d in a Juris	sdictional \	WOTUS
		d) Connects	Two or M	ore Jurisd	ictional WOTUS
		**************************************			(including wetlands) into the
		tributary :	system of a	TNW	
			Hydrolog	ic Charac	teristics
Surfa	ice W	/ater:	Present		Absent 😾
Perce	eptibl	e Flow:	Present		Absent ×
	11/2 200 1200	oth at Thalweg:		A We	etted Perimeter Width: N/A
		lient Direction:	5		£ <del>.=1/11</del>
		Ge	omorphol	ogic Cha	racteristics
Prima	ary S	ubstrate Class:			
			Wic	ith	
			at DP	Max	
		OHWM	13.	-21	
		Top of Bank [	36	2, 1	].
			Left	Right	1
	Ban	k Slope (H:V)	11	131	]
			Bank St	ability Su	mmary
		Left Bank:			alle
			== 0.072/01	U	
		Right Bank:	allat	inelle.	stable



	Habita	at Charac	teristics
Aquatic Vegetation I If Yes, Describ		Yes	□ No 🗴
Aquatic Organisms If Yes, Describ		Yes	□ No 🔀
Terrestrial Organism If Yes, Describ		Yes	No ✓
	Ripari	an Charac	teristics
Riparian Vegetation Right:	24 x 80	Man	
Associated Wetland If Yes, Describ Associated Artificial If Yes, ID:	e:	-11500	No 🔀 Yes 🔀 No 🗀
		Photos	
Upstream	Direction		Description
Dowsnstream	-5		
Cross Channel	E	P 1	0 L
Chamel is a I law into	hu hoon	belo	& Comments:



Data Point ID: D	01-1301 P-380		6/1/16
	all Hill Wind P	roject	
Evaluator(s):	Jame 20	4400	
County: Chautaud	úa		State: NY
Jurisdictional: Y	es 🔀 No		
Lat: 42.452181	<		79,113,639
	urisdictional		PATE NEW PRINCIPLE
Yes No		The second secon	al Attribute
	d Bed and Bar		
	ry High Water		
The second secon	with the control of the latter	the contract of the same based and the same based of	Traditional Navigable Water
The second secon	THE RESERVE AND ADDRESS OF THE PARTY OF THE	CONTRACTOR OF THE PARTY OF THE	Satisfy At Least 1 of 5 Below)
7 a) Pres Wate	그 하다 가는 아니는 아니라 그렇게 그렇게 되었다. 하는 것이다.	rely Permar	nent Flowing or Standing
	tural Stream T	hat Has Be	en Altered
c) Exca	vated in a Juri	sdictional V	VOTUS
d) Conr	nects Two or N	Nore Jurisdi	ctional WOTUS
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			including wetlands) into the
tribut	ary system of	a TNW	
	Hydrolog	ic Charact	eristics
Surface Water:	Present		Absent ~
Perceptible Flow:	Present		Absent
Water Depth at Thal	AUGUST 25-11-21-21		tted Perimeter Width: N//
Flow/Gradient Direct		200000	
	Geomorpho	logic Char	acteristics
Primary Substrate C	ass:		
	Wi	dth	
	at DP	Max	
OHV			
Top of Ba	nk 1.51	1.5	
	Left	Right	
	(:V) 1 - 1	1:1	
Bank Slope (H			
Bank Slope (H	Bank S	tability Sur	nmary
Bank Slope (H	Bank S		nmary



Habitat	t Charac	teristics
	Yes	□ No □
	Yes	□ No ∑
	Yes	□ No ⋈
Riparia	n Charac	teristics
و: صننام	Yes Z	No No
	Photos	
Direction	Î	Description
N		
5		
W	1. 1.	0-1-
	al Notes	& Comments:
	Present: e: Observed: e: ns Observed: e: Riparial Description (0'	Present: Yes e: Observed: Yes e: Is Observed: Yes e: Riparian Charac Description (0' to 150' f



Ditch	Fiel		A20	š	
Data	Poin	The second secon	393		612116
Land of the same	ct Na	AUGUSTON TO THE REAL PROPERTY OF THE PERTY O	fill Wind P	roject	
	uator(		me Son	000	
Cour	ity:	Chautauqua			State: NY
Juris	dictio	nal: Yes	✓ No		
Lat:	93.	460306		Long:	-19, 148835
		Juris	dictional	Determina	tion Criteria
Yes	No		Ju	risdiction	al Attribute
1		1) Defined Be	ed and Ban	k Present	
¥		2) Ordinary H	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	THE RESERVE AND PARTY AND PARTY AND PARTY.	Sign Age in
1		And in contract of the contrac	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	AND RESIDENCE AND ADDRESS OF THE PARTY OF TH	a Traditional Navigable Water
	, v				Satisfy At Least 1 of 5 Below)
×		a) Presence Water	e of Relativ	ely Perma	nent Flowing or Standing
		b) A Natura	Stream T	hat Has Be	en Altered
		c) Excavate	d in a Juri	sdictional V	VOTUS
		d) Connect	s Two or N	lore Jurisdi	ctional WOTUS
		Control of the Contro	atural Wat		including wetlands) into the
	_			ic Charac	teristics
Surfa	ice W	/ater:	Present	¥	Absent
200,000	P-11-54 154.5	e Flow:	Present		Absent
	77	oth at Thalweg			tted Perimeter Width: 🔞 "
		lient Direction:	911		
		Ge	omorpho	logic Char	acteristics
Prima	ary S	ubstrate Class	Con	nete	
		I	Wi	dth	
			at DP	Max	
		OHWM	90 "	200	
		Top of Bank	417	A11.75	
			Left	Right	
	Bar	k Slope (H:V)	1 E	10.10	
				tability Sur	mmary
		Left Bank:	Splentel	0	
		-			
		Right Bank:	25tale	le	



	Habita	t Characteristics
Aquatic Vegetation f		Yes X No
Aquatic Organisms ( If Yes, Describ	COLUMN ALTERNATION AND A STATE OF THE A	Yes No 🔀
Terrestrial Organism If Yes, Describ		Yes No 🔀
	Riparia	an Characteristics
Associated Wetland If Yes, Describ	Present:	Yes No No
If Yes, ID:		Photos
	Direction	Description
Upstream	É	
Dowsnstream	W	
Cross Channel	N	PJO L
	Supplement	al Notes & Comments:
minhi dlode concide Ni umuld de co	el al	29. mant of the energ forated  and so for formed of  property to a year of and  furnished to a year of  year of white  you is alagnost



	- A304
	383 Date: 6/3//6
Prophospharitation (1)	fill Wind Project
Evaluator(s):	Walter Sylly March 2011 and 19
County: Chautauqua	State: NY
Jurisdictional: Yes [	
Lat: 42,460459	Long: -79,148818
	dictional Determination Criteria
Yes No	Jurisdictional Attribute
	ed and Bank Present
	ligh Water Mark Present
	idirect Connection to a Traditional Navigable Water
	nting Attributes (Must Satisfy At Least 1 of 5 Below)
a) Presence Water	e of Relatively Permanent Flowing or Standing
b) A Natural	Stream That Has Been Altered
c) Excavate	ed in a Jurisdictional WOTUS
d) Connects	s Two or More Jurisdictional WOTUS
	atural Water Bodies (including wetlands) into the system of a TNW
	Hydrologic Characteristics
Surface Water:	Present Absent ×
Perceptible Flow:	Present Absent >
Water Depth at Thalweg: Flow/Gradient Direction:	Wetted Perimeter Width: N /
CONTRACTOR OF THE PARTY OF THE	omorphologic Characteristics
Primary Substrate Class:	The state of the s
	at DP Max
OHWM	at Dr Wax
Top of Bank	49" 49"
rop or bank [	
Bank Slope (H:V)	Left Right
	Bank Stability Summary
Left Bank:	Stable
0.0000000000000000000000000000000000000	A STATE OF BUILDING
Right Bank:	Stoble



	Habita	t Charac	teristics
Aquatic Vegetation If Yes, Describ		Yes	No 🔀
Aquatic Organisms If Yes, Describ		Yes	No 🔽
Terrestrial Organism If Yes, Describ		Yes	No 🔀
	Riparia	n Chara	cteristics
	oe:	\20 3 Yes □	No Yes No X
If Yes, ID:		District	
		Photos	
************	Direction		Description
Upstream	E		
Dowsnstream	VA.	CONTRACTOR AND THE	
Cross Channel	N	1120	P
		The second second	& Comments:
The Control of the Co		70	delineation area
			este have in france
		006.60	h likely connection
droma vo	1.9.5		



Data Poin	nt ID: DP- 354 Date: 6/5/16	
Project Na	Control of the Contro	
Evaluator	A STATE OF THE STA	
County:	Chautauqua State: NY	
Jurisdictic	onal: Yes No No	
Lat: <u>93</u>	463673 Long: -79 149544	
	Jurisdictional Determination Criteria	
Yes No	Jurisdictional Attribute	
¥	Defined Bed and Bank Present	
4	Ordinary High Water Mark Present	
+	Direct or Indirect Connection to a Traditional Navigable War	
	4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Belo	w)
1	a) Presence of Relatively Permanent Flowing or Standing     Water	
	b) A Natural Stream That Has Been Altered	
	c) Excavated in a Jurisdictional WOTUS	
	d) Connects Two or More Jurisdictional WOTUS	
	<ul> <li>e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW</li> </ul>	-
	Hydrologic Characteristics	
Surface V	Water: Present Absent	
Perceptib		
	epth at Thalweg: [1//] Wetted Perimeter Width: [1//	1
	idient Direction:	
	Geomorphologic Characteristics	
Primary S	Substrate Class:	
	Width	
	at DP Max	
	OHWM 31" 21"	
	Top of Bank 4.5 4.5	
	Left Right	
Bai	ink Slope (H:V)	
	Bank Stability Summary	
	Left Bank: シボッル 10	



	Habita	t Charac	teristics
Aquatic Vegetation I If Yes, Describ		Yes	No Z
Aquatic Organisms If Yes, Describ		Yes	No 🗵
Terrestrial Organisn If Yes, Describ		Yes	No 🔀
	Riparia	n Charac	cteristics
Riparian Vegetation Right: المحرود Left: المحرود	se floory.	Ingl	0 0 1 1 1
Associated Wetland If Yes, Describ Associated Artificial If Yes, ID:	e:	Yes	No Yes No Yes
		Photos	
	Direction		Description
	OHOUNDH		D COST PROT
Upstream	E		
Dowsnstream	E W		
	E 75	Q Jo	
Dowsnstream	Supplement	al Notes	& Comments:



Ditch F	ield ID:		· Ditch				
Data Po	oint ID:	DP-U	165	Date:	5/20/16		
Project	Name:	Ball H	ill Wind Pr	oject			
Evaluat	` ,		Victs 1	Vicole Out			
County	: <u>Chaut</u>	auqua			State: _	NY	
Jurisdio		Yes [	× No				
Lat:	42.407	788		Long:	-79.113	3959	
		Juris	dictional	Determina	tion Criter	ia	
Yes N	10		Ju	risdictiona	al Attribute	)	
X	1) De	fined Be	d and Ban	k Present			
$\times$	<del></del>		<del></del>	Mark Prese			
						al Navigable	
		<del></del>				_east 1 of 5	
X	1 '		e of Relativ	ely Permar	nent Flowin	ig or <u>Standi</u>	<u>ng</u>
		Vater					
				hat Has Be			
				sdictional V			
	<del></del>			lore Jurisdi			
>	/ I /			,	including w	etlands) int	o the
	<u> </u>	ributary	system of	a INW			
			Hydrolog	ic Charact	teristics		
Surface	e Water:		Present	$\times$	Absent		
Percep	tible Flow		Present		Absent	X	
•	Depth at T		3"	We	tted Perime		1.0'
Flow/G	radient Di	irection:		10%	N		
		Ge	omorpho	logic Char	acteristics	3	
Primar	y Substrat	te Class	; <u>S</u>	si It / Clay			
			Wi	dth			
			at DP	Max			
		MWHC	4.0'	6.0'			
	Торо	f Bank	9.0'	12.0'			
			Left	Right	]		
l	Bank Slop	e (H:V)	2'/3'	2': 3'			
			Bank S	tability Su	mmary		
	Let	ft Bank:				in present	
						7	
	Righ	nt Bank:	bank is	Stable, No	en 5 jan 12.	revent	
	J	•	<del></del>				



	Habitat	Charact	eristics				
Aquatic Vegetation If Yes, Describ		Yes		No 🖸	<u> </u>	 	
Aquatic Organisms If Yes, Describ		Yes		No 📑	X	 	
Terrestrial Organism		Yes		No 🖸	X		
	Riparian	n Charac	teristic	\$			
Riparian Vegetation	n Description (0' Mointained FA				<u></u>		
51-150	O' Cultivated	row c	mps (	wheat	)		_
Left: <u>0 ~ 46'</u>	FACIFACN !	nei baciou	5 Veg.	·			
40'-50 SO'-132 Associated Wetland	1' Access man	w cuts (	<u> </u>		· · · · · · · · · · · · · · · · · · ·		
			No [				
If Yes, Describ	oe:	Lalat	land A	597			
,		0021	iano M	<u> </u>		 	
Associated Artificial	· · · · · · · · · · · · · · · · · · ·	nt:	idno ji		es 🔀	No	
·	I Drain(s) Preser	nt: 1	id"O 1		es 🔀	No	
Associated Artificial	· · · · · · · · · · · · · · · · · · ·	nt:	iano y		es X	No	
Associated Artificial	· · · · · · · · · · · · · · · · · · ·	nt: 1	1577.14			No	
Associated Artificial If Yes, ID:  Upstream	AD- A So	nt: 1	1577.14	Y		No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	AD- ASO	nt: 1 Photos	1577.14	Y		No	
Associated Artificial If Yes, ID:  Upstream	AD- A So	nt: 1	1577.14	Y		No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	
Associated Artificial If Yes, ID:  Upstream  Dowsnstream	Direction S N	Photos		Y Descri	ption	No	



	Field ID:	-	ar Ase	Date:	5laali.	
Data Point ID: Project Name:		DO-72c Date: 5/27/16				
Evalua				and Nico	· Other	
	Choul	O CLOTA	0	AND INICO	State: NY	
	ctional:	Yes D				
	42,43	-		Long:	-79.12935S	
Lat.	72, 13		liational		tion Criteria	
Yes 1	No	Jurisc	RECEIPTED STORY		al Attribute	
-		ned Ber		nk Present	ai Attribute	
X				Mark Prese	ent	
X	The state of the s	and the second second	The second second	The state of the s	a Traditional Navigable Water	
	TOTAL CONTRACTOR AND ADDRESS OF THE PARTY.	manufacture of the second	ACCRECATE AND PARTY OF THE PART		Satisfy At Least 1 of 5 Below)	
	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	THE RESERVE AND ADDRESS.	The state of the latest state of	of the second second second second second	nent Flowing or Standing	
		ater	41171252482557	250.000.000.000.000.000		
	X b) A	Natural	Stream T	hat Has Be	en Altered	
X	c) Ex	cavated	in a Juri	sdictional V	VOTUS	
	X d) Co	nnects	Two or N	Nore Jurisdi	ctional WOTUS	
,	Y				including wetlands) into the	
/	^ trit	outary s	ystem of	a TNW		
			Hydrolog	gic Charact	teristics	
Surface	e Water:		Present		Absent X	
Percen	tible Flow:		Present		Absent X	
THE RESERVE OF THE PARTY OF THE	Depth at Th	alweg:	NI	2777	tted Perimeter Width:	
	radient Dire	1		ast	and the state of t	
Contract	SOURCE CONTRACTOR OF STREET	Geo	morpho	logic Char	acteristics	
Primar	y Substrate			Silt		
		T.	W	dth		
			at DP	Max		
	OH	HWM	1,54	2.56		
in the state of th			2 fr	30		
			Left	Right		
E	Bank Slope	(H:V)	0,50,5	1/0.5		
Į	Bank Slope	(H:V)	THE PERSON NAMED IN	tability Sur	nmary	



Data Point ID: DP 720\_

	Habita	t Charact	eristics	
Aquatic Vegetation f If Yes, Describ		Yes	□ No □	
Aquatic Organisms ( If Yes, Describ		Yes	□ No □	
Terrestrial Organism If Yes, Describ	The Print of Charles of the Section In a continue	Yes	☐ No 区	
	Riparia	n Charac	teristics	
Associated Wetland If Yes, Describ	PSS weeks  Present:  6: Weeklor	Yes X	-150' Uphano, L- A 624	No X
If Yes, ID:		Photos		
		Photos		
Upstream	Direction	+	Description	
Dowsnstream	E			
Cross Channel	N	Lto	2	
	Supplement	al Notes	& Comments:	
Road side dis	zh cug iv	008	al bisoday of	vertenis.



Ditch Field ID: DI- A So?						
Data Point ID: DP- 754 Date: 6 8 16						
Project Name: Ball Hill Wind Project						
Evaluator(s): Ben Vivrs and Nicola Dutcher						
County: Chautauqua State: NY						
Jurisdictional: Yes No 💢						
Lat: 42,419441 Long: 479,152273						
Jurisdictional Determination Criteria						
Yes No Jurisdictional Attribute						
X 1) Defined Bed and Bank Present						
× 2) Ordinary High Water Mark Present						
→ 3) Direct or Indirect Connection to a Traditional Navigable Water						
4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)						
a) Presence of Relatively Permanent Flowing or Standing						
X   Water						
x b) A Natural Stream That Has Been Altered						
x c) Excavated in a Jurisdictional WOTUS						
χ d) Connects Two or More Jurisdictional WOTUS						
e) Drains Natural Water Bodies (including wetlands) into the						
tributary system of a TNW						
Hydrologic Characteristics						
Surface Water: Present Absent X						
Perceptible Flow: Present Absent X						
Water Depth at Thalweg (ft.): NA						
Wetted Perimeter Width (ft.): NIA						
Flow/Gradient Direction:						
Geomorphologic Characteristics						
Primary Substrate Class:						
Width (ft.)						
at DP Max						
OHWM AIA N/A						
Top of Bank						
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:						
Left:						
Right: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						



	Bank Sta	ability Summary
Left I	Bank: Stuble	· Vegetation well established, no
	eridence of we	ndercutting or erosion
District.		
Right i	Bank: 1 Sam	e as Left 1
	Habitat (	Characteristics
Aquatic Vegetation		Yes No X
If Yes, Descr	ibe:	
Aquatic Organisms If Yes, Descr		Yes No X
Terrestrial Organis		Yes No X
	Riparian	Characteristics
Riparian Vegetatio	n Description (0' 1	to 150' from TOB):
· -		cion Vegetation
	0' - altimated	
	· · · · · · · · · · · · · · · · · · ·	
Left: <u>0-2'</u>	- upland her	becom vegetation
21-25	5' - Asphilt Rox	ad
Associated Wetlar	nd Present:	Yes X No
If Yes, ID:	Wetland	Indiana Indiana
Associated Artifici	· · · · · · · · · · · · · · · · · · ·	
If Yes, ID:	• •	The part of the pa
		Photos
	Direction	Description
Upstream	S	
Dowsnstream	7	
Cross Channel	N	PtoL
	•	Notes & Comments:
Non-jurisdicti	on badsite a	lith along tope Hill Road



Ditch Field ID: DT - A509						
Data Point ID: DP- 760 Date: 6916						
Project Name: Ball Hill Wind Project						
Evaluator(s): Ben VICTO and Nicole Dutcher						
County: Chautauqua State: NY						
Jurisdictional: Yes X No						
Lat: 42.475060 Long: -79.149393						
Jurisdictional Determination Criteria						
Yes No Jurisdictional Attribute						
χ 1) Defined Bed and Bank Present						
<ul> <li>X</li> <li>X</li> <li>Defined Bed and Bank Present</li> <li>X</li> <li>2) Ordinary High Water Mark Present</li> </ul>						
X 3) Direct or Indirect Connection to a Traditional Navigable Water						
4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)						
a) Presence of Relatively Permanent Flowing or Standing						
VValei						
b) A Natural Stream That Has Been Altered						
x c) Excavated in a Jurisdictional WOTUS						
d) Connects Two or More Jurisdictional WOTUS						
e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW						
Hydrologic Characteristics						
Surface Water: Present Absent X						
Perceptible Flow: Present Absent X						
Water Depth at Thalweg (ft.): NA						
Wetted Perimeter Width (ft.):N/A						
Flow/Gradient Direction: NW						
Geomorphologic Characteristics						
Primary Substrate Class: 5'1+ Clay						
Width (ft.)						
at DP Max						
OHWM AIM MWHO						
Top of Bank 3' 3'						
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:						
Left: \i\						
Right: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						



	Bank Sta	bility Summary
Left I	Bank: <u>Very Stab</u> e	- , Vegetation growing on bank, No
	endera of	unsercutting or sloughing
Right I	Bank:	som as above T
Thomas I was a second of	Habitat (	Characteristics
Aquatic Vegetation If Yes, Descri		Yes No 🗵
Aquatic Organisms If Yes, Descri		Yes No X
Terrestrial Organis If Yes, Descri		Yes No X
	Riparian	Characteristics
Riparian Vegetatio	n Description (0' t	o 150' from TOB):
	Johns FAC plants	
	" cultivated m.	
		en en en en en en en en en en en en en e
Left: <u>0-15</u> 0	PFO Wetlar	nd on ditch part flowing Etalu
· <del>- · · · · · · · · · · · · · · · · · ·</del>	and Uplans	Forest on section of ditch fluing StON
Associated Wetlar		Yes X No
If Yes, ID:		538
Associated Artifici		harman ha
IT YES, ID: AM	ficial Drain AD	
		Photos
	Direction	Description
Upstream	<u> </u>	
Dowsnstream Cross Channel	W	0.51
Closs Channel	S	l b c
~ ~ 1		Notes & Comments:
Drains metlo	nd A638 to	agricultural pard outside Study area
	١	



Ditch Field ID: DT - ASID
Data Point ID: DP- 776 Date: 6/10/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Vine an Nicon Darr
County: Chautauqua State: NY
Jurisdictional: Yes X No
Lat: 42.4900502 Long: -79.15.1437
Jurisdictional Determination Criteria
Yes No Jurisdictional Attribute
X 1) Defined Bed and Bank Present
2) Ordinary High Water Mark Present
3) Direct or Indirect Connection to a Traditional Navigable Water
4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
a) Presence of Relatively Permanent Flowing or Standing
X   Water
b) A Natural Stream That Has Been Altered
x c) Excavated in a Jurisdictional WOTUS
d) Connects Two or More Jurisdictional WOTUS
e) Drains Natural Water Bodies (including wetlands) into the
Tributary system of a TNW
Hydrologic Characteristics
Surface Water: Present Absent X
Perceptible Flow: Present Absent X
Water Depth at Thalweg (ft.): N/A
Wetted Perimeter Width (ft.): NA
Flow/Gradient Direction: West
Geomorphologic Characteristics
Primary Substrate Class: S. It
Width (ft.)
at DP Max
OHWM \'\'\\ 2'
Top of Bank 2' 3'
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1:3
Right: [:1



Data Point ID:	775	Hartina	No.
	Bank Sta	bility Summary	
Left E	Bank: Stable -	well vegetated	
	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Right E	Bank: Stabu -	Well Vegetated	
			en en en en en en en en en en en en en e
and the second s	Habitat (	Characteristics	
Aquatic Vegetation If Yes, Descri		Yes No X	
Aquatic Organisms If Yes, Descri		Yes No X	
Terrestrial Organis		Yes No 🔽	
	Riparian	Characteristics	enge.
Riparian Vegetation Right: _ O-\S	n Description (0' t っつ' - アミ州 い		
Left: 0-5'	- Vaussid bank		
	- Asphalt moin	road	
30' -35	- Ditzh	35-1501- Uplan	
Associated Wetlan	d Present:	Yes X No	
If Yes, ID:	Awu		
Associated Artifici	al Drain(s) Presei A⊘-≲2७	nt: Yes 🔀 No 🔝	
	e jegani je	Photos	
	Direction	Description	
Upstream	5		
Dowsnstream	N		
Cross Channel	M. Harris	<u> </u>	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Supplemental	Notes & Comments:	
			:
	· · · · · · · · · · · · · · · · · · ·		



Ditch	r Fiel	dID: Ditch 19511	_		
Data	Point	t ID: DP-782 Date: 6122116			
Project Name: Ball Hill Wind Project					
Evalu	uator(		_		
Cour	ity:	Chautauqua State: NY	_		
Juris	dictio	terment to the first terminal to the first terminal termi			
Lat:	42.	.5083498 Long: -79.1573107	_		
		Jurisdictional Determination Criteria			
Yes	No	Jurisdictional Attribute			
X		1) Defined Bed and Bank Present			
X		2) Ordinary High Water Mark Present			
X		3) Direct or Indirect Connection to a Traditional Navigable Water	_		
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)			
	*	a) Presence of Relatively Permanent Flowing or Standing	١		
		Water	-		
	X	b) A Natural Stream That Has Been Altered	4		
	X	c) Excavated in a Jurisdictional WOTUS	4		
×		d) Connects Two or More Jurisdictional WOTUS	4		
	×	e) Drains Natural Water Bodies (including wetlands) into the	۱		
		tributary system of a TNW			
100		Hydrologic Characteristics			
Surfa	ace W	Vater: Present Absent ∠			
Perc	eptibl	le Flow: Present Absent 🗴			
Wate	er De <sub>l</sub>	pth at Thalweg (ft.): ุมษ			
Wett	ed Pe	erimeter Width (ft.): NB			
Flow	/Grad	dient Direction: west			
		Geomorphologic Characteristics			
Prim	ary S	ubstrate Class: Sx 1+ /clay			
	· ·	Width (ft.)			
		at DP Max			
		OHWM z' 3'			
		Top of Bank 9' 9'			
Banl	< Slor	pe [Reported as % or Horizontal:Vertical(H:V)]:			
!'	=  -	Left:			
		Right: 131			



Data Point ID:

### **Ditch Data Form**

DP-782 Bank Stability Summary Banks are fully regetated with no Left Bank: Emsion Present Right Bank: Some as Lat Bank Habitat Characteristics Aquatic Vegetation Present: Yes No X If Yes, Describe: Aquatic Organisms Observed: Yes No x If Yes, Describe: Terrestrial Organisms Observed: Yes No 🗓 If Yes, Describe: Riparian Characteristics Riparian Vegetation Description (0' to 150' from TOB): Right: Forest 0'-150' Left: Facilitation Shrups and herbers bull **Associated Wetland Present:** Yes x No If Yes, ID: OFFS. le to East, no ID Associated Artificial Drain(s) Present: Yes If Yes, ID: Photos | Description Direction Upstream E Dowsnstream W Cross Channel RTL Supplemental Notes & Comments:

# APPENDIX D REPRESENTATIVE SITE PHOTOGRAPHS



Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 1

Facing West

## Description:

Data Point 1
PEM Wetland Data
Point for Wetland A1



#### Photo No. 2

Facing East

## Description:

Data Point 2 Upland Data Point for Wetland A1





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 3

Facing North/Upstream

### Description:

Data Point 6 Stream Data Point for Stream 1



#### Photo No. 4

Facing East/Right to Left

### Description:

Data Point 7 Stream Data Point for Stream 2





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 5

Facing South/Downstream

## Description:

Data Point 10 Stream Data Point for Stream 3



#### Photo No. 6

Facing Upstream

## Description:

Data Point 11 Stream Data Point for Stream 4





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 7

Facing North/Right to Left

## Description:

Data Point 12 Stream Data Point for Stream 5



#### Photo No. 8

Facing East

## Description:

Data Point 13 PEM wetland Data Point for Wetland C1





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 9

Facing West

## Description:

Data Point 14 Upland Data Point for Wetland C1



#### Photo No. 10

Facing North

## Description:

Ditch C1 Ditch between two agricultural fields





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 11

Facing East

## Description:

Data Point 16 Upland Data Point for Wetland D1



#### Photo No. 12

Facing West

## Description:

Data Point 15 PEM Wetland Data Point for Wetland D1





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

150001

Project No.

#### Photo No. 13

Facing North

## Description:

Ditch D1 Ditch between two agricultural fields



#### Photo No. 14

Facing North

## Description:

Data Point 24 PEM Wetland Data Point for Wetlands I1 and I2





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 15

Facing East

### Description:

Data Point 30 PEM Wetland Data Point for Wetland J3



#### Photo No. 16

Facing West

### Description:

Data Point 31 Upland Data Point for Wetland J3





Project Name:

Site Location:

Project No.

150001

Ball Hill Wind Project

Chautauqua County, NY

#### Photo No. 17

Facing North

### Description:

Data Point 46 PEM Wetland Data Point for Wetland N1



#### Photo No. 18

Facing South

#### Description:

Data Point 47 Upland Data Point for Wetland N1





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 19

Facing North

### Description:

Data Point 50 PSS Wetland Data Point for Wetland P1



#### Photo No. 20

Facing South

### Description:

Data Point 51 Upland Data Point for Wetland P1





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 21

Facing West

## Description:

Data Point 55 PEM Wetland Data Point for Wetland R1



#### Photo No. 22

Facing East

## Description:

Data Point 56 Upland Data Point for Wetland R1





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 23

Facing North/Downstream

## Description:

Data Point 63 Stream Data Point for Stream 11



#### Photo No. 24

Facing East

## Description:

Data Point 64 Wetland Data Point for Wetland V1





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 25

Facing West

## Description:

Data Point 65 Upland Data Point for Wetland V1



#### Photo No. 26

Facing East/Right to Left

## Description:

Data Point 69 Stream Data Point for Stream 13





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 27

Facing East/Downstream

## Description:

Data Point 68 Stream Data Point for Stream 12



#### Photo No. 28

Facing East/Downstream

## Description:

Data Point 73 Stream Data Point for Stream 15





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 29

Facing East/Downstream

## Description:

Data Point 76 Stream Data Point for Stream 16



#### Photo No. 30

Facing South

### Description:

Data Point 77 PFO Wetland Data Point for Wetland W1





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 31

Facing North

## Description:

Data Point 78 Upland Data Point for Wetland W1



#### Photo No. 32

Facing Northwest

## Description:

Data Point 81 PEM Wetland Data Point for Wetland X1





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 33

Facing Southeast

## Description:

Data Point 82 Upland Data Point for Wetland X1



#### Photo No. 34

Facing East/Downstream

## Description:

Data Point 83 Stream Data Point for Stream 17





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 35

Facing East/Downstream

### Description:

Data Point 90 Stream Data Point for Stream 18



#### Photo No. 36

Facing North

### Description:

Data Point 91 PEM Wetland Data Point for Wetland A5





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 37

Facing South

## Description:

Data Point 92 Upland Data Point for Wetland A5



#### Photo No. 38

Facing West/Upstream

## Description:

Data Point 95 Stream Data Point for Stream 19





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 39

Facing Southeast

### Description:

Data Point 97 PEM Wetland Data Point for Wetland A7



#### Photo No. 40

Facing Northwest

### Description:

Data Point 98 Upland Data Point for Wetland A7





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 41

Facing Southeast

## Description:

Data Point 99 PEM Wetland Data Point for Wetland A8



#### Photo No. 42

Facing South

## Description:

Data Point 100 Upland Data Point for Wetland A8





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 43

Facing South

## Description:

Data Point 500 PEM Wetland Data Point for Wetland A500



#### Photo No. 44

Facing North

## Description:

Data Point 501 Upland Data Point for Wetland A500





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 45

Facing North/Right to Left

### Description:

Data Point 502 Stream Data Point for Stream A500



#### Photo No. 46

Facing North

### Description:

Data Point 503 PSS/PEM Wetland Data Point for Wetland A501





Project Name:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

Site Location:

150001

#### Photo No. 47

Facing North

### Description:

Data Point 505 PEM Wetland Data Point for Wetland A502



#### Photo No. 48

Facing West

### Description:

Data Point 506 Upland Data Point for Wetland A503





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 49

Facing East

### Description:

Data Point 509 PEM Wetland Data Point for Wetland A504



#### Photo No. 50

Facing West

### Description:

Data Point 510 Upland Data Point for Wetland A504





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 51

Facing West

## Description:

Overview of Pond A500



#### Photo No. 52

Facing West

## Description:

Data Point 511 PEM Wetland Data Point for Wetland A505





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 53

Facing North

### Description:

Data Point 513 PEM Wetland Data Point for Wetland A507



#### Photo No. 54

Facing South

### Description:

Data Point 516 PFO Wetland Data Point for Wetland A509





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 55

Facing West

## Description:

Data Point 517 Upland Data Point for Wetland A509



#### Photo No. 56

Facing West/Downstream

## Description:

Data Point 520 Stream Data Point for Stream A502





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 57

Facing North

## Description:

Artificial Drain A500 6" steel drain tile outlet



#### Photo No. 58

Facing West

## Description:

Ditch A500 Connection ditch for associated Artificial Drains/drain tiles





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 59

Facing East

## Description:

Artificial Drain A503 10" clay drain tile connects to and shown within Ditch A500



#### Photo No. 60

Facing North

## Description:

Artificial Drain A505 10" steel drain tile outlet





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 61

Facing North

## Description:

Data Point 521 PEM Wetland Data Point for Wetland A511



#### Photo No. 62

Facing West

## Description:

Data Point 523 PEM Wetland Data Point for Wetland A512





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 63

Facing East

## Description:

Data Point 524 Upland Data Point for Wetland A512



#### Photo No. 64

Facing West/Upstream

## Description:

Data Point 525 Stream Data Point for Stream A504





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 65

Facing West/Upstream

## Description:

Data Point 526 Stream Data Point for Stream A505



#### Photo No. 66

Facing South

## Description:

Data Point 528 PEM wetland Data Point for Wetland A515





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 67

Facing South

## Description:

Data Point 529 Upland Data Point for Wetland A516



#### Photo No. 68

Facing South/Downstream

## Description:

Data Point 530 Stream Data Point for Stream A507





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 69

Facing South

## Description:

Data Point 539 PFO wetland Data Point for Wetland A521



#### Photo No. 70

Facing North

## Description:

Data Point 540 Upland Data Point for Wetland A521





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 71

Facing East/Downstream

## Description:

Data Point 547 Stream Data Point for Stream A509



#### Photo No. 72

Facing North

## Description:

Data Point 555 PEM Wetland Data Point for Wetland A532





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 73

Facing North

## Description:

Data Point 556 Upland Data Point for Wetland A532 and A533



#### Photo No. 74

Facing South

## Description:

Data Point 561 PFO Wetland Data Point for Wetland A535





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 75

Facing South

## Description:

Data Point 562 Upland Data Point for Wetland A535



#### Photo No. 76

Facing North/Upstream

## Description:

Data Point 563 Stream Data Point for Stream A510





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 77

Facing North

## Description:

Data Point 569 PEM Wetland Data Point for Wetland A540



#### Photo No. 78

Facing South

## Description:

Data Point 570 Upland Data Point for Wetland A540





Project Name:

Site Location:

Project No.

150001

Ball Hill Wind Project

Chautauqua County, NY

Photo No. 79

Facing North/Upstream

## Description:

Data Point 573 Stream Data Point for Stream A511



#### Photo No. 80

Facing South/Downstream

## Description:

Data Point 574 Stream Data Point for Stream A512





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 81

Facing North

## Description:

Data Point 575 PEM Wetland Data Point for Wetland A543



#### Photo No. 82

Facing South

## Description:

Data Point 576 Upland Data Point for Wetland A543





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 83

Facing South

## Description:

Data Point 577 PEM Wetland Data Point for Wetland A544



#### Photo No. 84

Facing North

## Description:

Data Point 578 Upland Data Point for Wetland A544





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 85

Facing West/Right to Left

## Description:

Data Point 588 Stream Data Point for Stream A516



#### Photo No. 86

Facing West

## Description:

Data Point 589 PFO Wetland Data Point for Wetland A553





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 87

Facing North

## Description:

Data Point 590 Upland Data Point for Wetland A553



#### Photo No. 88

Facing West/Upstream

## Description:

Data Point 591 Stream Data Point for Stream A517





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 89

Facing East

## Description:

Photo of Wetland A556



#### Photo No. 90

Facing North

## Description:

Data Point 595 PEM Wetland Data Point for Wetland A552





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 91

Facing North

# Description:

Data Point 601 PEM Wetland Data Point for Wetland A557



#### Photo No. 92

Facing North

## Description:

Data Point 602 Upland Data Point for Wetland A557





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 93

Facing South/Upstream

## Description:

Data Point 603 Stream Data Point for Stream A518



#### Photo No. 94

Facing North

## Description:

Data Point 604 PEM Wetland Data Point for Wetland A562





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 95

Facing West

## Description:

Data Point 605 Upland Data Point for Wetland A562



#### Photo No. 96

Facing East/Downstream

## Description:

Data Point 608 Stream Data Point for Stream A519





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 97

Facing West/Upstream

## Description:

Data Point 609 Stream Data Point for Stream A520



#### Photo No. 98

Facing South

## Description:

Data Point 610 PEM Wetland Data Point for Wetland A565





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 99

Facing North

### Description:

Data Point 611 Upland Data Point for Wetland A565



#### Photo No. 100

Facing West

## Description:

Photo of Wetland A566 This wetland is a purpose-built treatment wetland for manure management servicing the adjacent livestock feedlot and associated structures.





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 101

Facing West

### Description:

Photo of portion of Wetland A566 down gradient of the treatment wetland area shown in the photo above. This portion of the wetland is located within an active livestock feedlot and provides a downstream connection to a roadside ditch.



#### Photo No. 102

Facing West/Upstream

### Description:

Data Point 612 Stream Data Point for Stream A521





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 103

Facing South/Upstream

## Description:

Data Point 619 Stream Data Point for Stream A522



#### Photo No. 104

Facing North

## Description:

Data Point 620 PEM Wetland Data Point for Wetland A573





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 105

Facing East

## Description:

Data Point 621 Upland Data Point for Wetland A573



#### Photo No. 106

Facing South

## Description:

Data Point 622 PSS Wetland Data Point for Wetland A578





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 107

Facing North

## Description:

Data Point 623 Upland Data Point for Wetland A578



#### Photo No. 108

Facing West

## Description:

Data Point 636 PFO/PSS Wetland Data Point for Wetland A585





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 109

Facing East

## Description:

Data Point 637 Upland Data Point for Wetland A585



#### Photo No. 110

Facing North

## Description:

Data Point 638 PFO Wetland Data Point for Wetland A586





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 111

Facing South

## Description:

Data Point 639 Upland Data Point for Wetland A586



#### Photo No. 112

Facing North/Upstream

## Description:

Data Point 642 Stream Data Point for Stream A524





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 113

Facing North

## Description:

Data Point 645 PSS/PEM Wetland Data Point for Wetland A589



#### Photo No. 114

Facing West

## Description:

Data Point 646 Upland Data Point for Wetland A589





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 115

Facing South

## Description:

Data Point 652 PFO Wetland Data Point for Wetland A593



#### Photo No. 116

Facing North

## Description:

Data Point 653 Upland Data Point for Wetlands A593 and A594





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 117

Facing West

## Description:

Data Point 654 PFO Wetland Data Point for Wetland A594



#### Photo No. 118

Facing West/Downstream

## Description:

Data Point 655 Stream Data Point for Stream A525





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 119

Facing North/Downstream

## Description:

Data Point 656 Stream Data Point for Stream A526



#### Photo No. 120

Facing East/Downstream

## Description:

Data Point 657 Stream Data Point for Stream A527





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 121

Facing East/Upstream

## Description:

Data Point 658 Stream Data Point for Stream A528



#### Photo No. 122

Facing South

## Description:

Overview of Expansion of PEM Wetland A519 from Photo Point 1





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 123

Facing East

## Description:

Overview of Wetland A597 from PSS Data Point 663



#### Photo No. 124

Facing South

### Description:

Overview of Uplands Adjacent to Wetland A597 from Data Point 664





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 125

Facing Downstream/ North

### Description:

Data Point 666 Data Point for Stream A529



#### Photo No. 126

Facing Upstream/South

## Description:

Data Point 667 Data Point for Stream A530





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

150001

Project No.

#### Photo No. 127

Facing Downstream/North

## Description:

Data Point 667 Data Point for Stream A530



#### Photo No. 128

Facing East

## Description:

Overview of Wetland A600 from PEM Data Point 672





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 129

Facing East

## Description:

Overview of Wetland A602 from PEM Data Point 675



#### Photo No. 130

Facing East

## Description:

Data Point 676 Upland Data Point Adjacent to Wetland A602





Project No.

Project Name: Site Location: Ball Hill Wind Project

150001 Chautauqua County, NY

#### Photo No. 131

Facing Upstream/ West

### Description:

Data Point 686 Data Point for Stream A532



#### Photo No. 132

Facing Downstream/ East

### Description:

Data Point 843 Data Point for Stream A532





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 133

Facing South

## Description:

Overview of Wetland A609 from PFO Data Point 689



#### Photo No. 134

Facing South

## Description:

Overview of Uplands Adjacent to Wetland A609 from Data Point 690





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 135

Facing East

## Description:

Overview of Wetland A615 from PEM Data Point 699



#### Photo No. 136

Facing East

## Description:

Overview of Uplands Adjacent to Wetland A615 from Data Point 700





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

Photo No. 137

Facing West

Description:

Overview of Wetland A616 from PEM Data Point 701



Photo No. 138

Facing South

Description:

Overview of Uplands Adjacent to Wetland A616 from Data Point 702





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 139

Facing South

## Description:

Overview of Wetland A618 from PFO Data Point 704



#### Photo No. 140

Facing South

## Description:

Overview of Wetland A618 from PEM Data Point 705





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 141

Facing East

## Description:

Overview of Uplands Adjacent to Wetland A618 from Data Point 706



#### Photo No. 142

Facing Upstream/ West

## Description:

Data Point 707 Data Point for Stream A533





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 143

Facing Right to Left Bank/ North

# Description:

Data Point 707 Data Point for Stream A533



#### Photo No. 144

Facing West

## Description:

Overview of Wetland A620 from PEM Data Point 710





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 145

Facing West

## Description:

Overview of Uplands Adjacent to Wetland A620 from Data Point 711



#### Photo No. 146

Facing Upstream/ West

## Description:

Data Point 712 Data Point for Stream A534





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

Project No.

150001

#### Photo No. 147

Facing North

## Description:

Overview of Wetland A627 from PFO Data Point 728



#### Photo No. 148

Facing West

## Description:

Overview of Uplands Adjacent to Wetland A627 from Data Point 729





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 149

Facing West

## Description:

Overview of Wetland A632 from PEM Data Point 735



#### Photo No. 150

Facing South

## Description:

Overview of Uplands Adjacent to wetland A632 from Data Point 737





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 151

Facing West

## Description:

Overview of Wetland A634 from PFO Data Point 740



#### Photo No. 152

Facing West

## Description:

Overview of Uplands Adjacent to Wetland A634 from Data Point 741





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 153

Facing Downstream/ North

### Description:

Data Point 747 Data Point for Stream A537



#### Photo No. 154

Facing East

## Description:

Overview of Wetland A635 from PEM Data Point 748





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 155

Facing South

## Description:

Overview of Uplands Adjacent to Wetland A635 from Data Point 749



#### Photo No. 156

Facing Downstream/ West

## Description:

Data Point 762 Data Point for Stream A540





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

Project No.

150001

#### Photo No. 157

Facing North

## Description:

Data Point 763 PFO Data Point Wetland A639



#### Photo No. 158

Facing North

## Description:

Overview of Uplands Adjacent to Wetland A639 from Data Point 769





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 159

Facing North

## Description:

Overview of Wetland A641 from PEM Data Point 773



#### Photo No. 160

Facing North

## Description:

Data Point 774 PSS Data Point Wetland A641





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 161

Facing West

## Description:

Overview of Uplands Adjacent to Wetland A641 from Data Point 775



#### Photo No. 162

Facing North

## Description:

Overview of PEM Portion of Wetland A200 from PEM Data Point 200





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 163

Facing Southeast

## Description:

Overview of PFO Portion of Wetland A200 from PFO Data Point 202



#### Photo No. 164

Facing Southwest

## Description:

Overview of Wetland A202 from PEM Data Point 206





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 165

Facing Southeast

## Description:

Overview of Uplands Adjacent to Wetlands A202 and A203 from Data Point 207



#### Photo No. 166

Facing Northwest

## Description:

Overview of Wetland A203 from PEM Data Point 208





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 167

Facing Upstream/ Northeast

# Description:

Data Point 211 Data Point for Stream A200



#### Photo No. 168

Facing Southwest

# Description:

Overview of Wetland A206 from PEM Data Point 216





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 169

Facing South

# Description:

Overview of Wetland A207 from PSS Data Point 217



#### Photo No. 170

Facing North

# Description:

Overview of Wetland A208 from PSS Data Point 221





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 171

Facing Upstream/ East

### Description:

Data Point 222 Data Point for Stream A202



#### Photo No. 172

Facing East

# Description:

Overview of Uplands Adjacent to Wetland A209 from Data Point 225





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 173

Facing West

# Description:

Overview of Wetland A10 from PEM Data Point 227



#### Photo No. 174

Facing East

# Description:

Overview of Wetland A212 from PEM Data Point 229





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

Photo No. 175

Facing West

Description:

Overview of Wetland A213 from PSS Data Point 230



Photo No. 176

Facing North

Description:

Overview of Uplands Adjacent to Wetland A213 from Data Point 231





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 177

Facing Downstream/ North

# Description:

Data Point 243
Data Point for
Stream A203



#### Photo No. 178

Facing West

# Description:

Overview of Wetland A220 from PEM Data Point 244





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 179

Facing East

# Description:

Overview of Uplands Adjacent to Wetland A220 from Data Point 245



#### Photo No. 180

Facing South

# Description:

Overview of Wetland A221 from PEM Data Point 247





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 181

Facing Downstream/ Southeast

# Description:

Data Point 249 Data Point for Stream A204



#### Photo No. 182

Facing East

# Description:

Overview of Wetland A232 from PEM Data Point 269





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 183

Facing East

# Description:

Overview of Uplands Adjacent to Wetlands A232 and A233 from Data Point 271



#### Photo No. 184

Facing Downstream/ East

# Description:

Data Point 272 Data Point for Stream A205





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 185

Facing South

# Description:

Overview of Wetland A236 from PSS Data Point 277



#### Photo No. 186

Facing Upstream/ South

# Description:

Data Point 278 Data Point for Stream A207





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 187

Facing Upstream/ East

# Description:

Data Point 287 Data Point for Stream A210



#### Photo No. 188

Facing Downstream/ North

### Description:

Data Point 288 Data Point for Stream A211





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 189

Facing East

# Description:

Overview of Wetland A238 from PSS Data Point 292



#### Photo No. 190

Facing Upstream/ East

# Description:

Data Point 293 Data Point for Stream A212





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

Project No.

150001

#### Photo No. 191

Facing East

# Description:

Overview of Wetland A239 from PEM Data Point 295



#### Photo No. 192

Facing West

# Description:

Overview of Uplands Adjacent to Wetlands A238 and A239 from Data Point 297





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 193

Facing East

# Description:

Overview of Wetland A643 from PEM Data Point 777



#### Photo No. 194

Facing West

# Description:

Overview of Uplands Adjacent to Wetland A643 from Data Point 778





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 195

Facing West

# Description:

Overview of PEM portion of Wetland A643 and associated Pond A643



#### Photo No. 196

Facing East

# Description:

Overview of Pond A643





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 197

Facing West

# Description:

Overview of PEM portion of Wetland A643



#### Photo No. 198

Facing West

# Description:

Overview of PEM portion of Wetland A643





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 199

Facing West

# Description:

Overview of PEM portion of Wetland A643 located within active hay field



#### Photo No. 200

Facing North

# Description:

Overview of PEM portion of Wetland A643 located within active hay field





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 201

Facing West

# Description:

Overview of PFO within Wetland A593



#### Photo No. 202

Facing West

# Description:

Overview of PFO within Wetland A593





Project Name:

Ball Hill Wind Project

Site Location:

Chautauqua County, NY

**Project No.** 150001

#### Photo No. 203

Facing South

# Description:

Overview of PFO from within Wetland A594



#### Photo No. 204

Facing East

# Description:

Overview of PFO from within Wetland A594





Project Name:

Site Location:

Project No.

Ball Hill Wind Project

Chautauqua County, NY

150001

#### Photo No. 205

Facing South

# Description:

Overview of PEM from within Wetland A594



#### Photo No. 206

Facing East

# Description:

Overview of PEM from within Wetland A594

