

Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet Energy Cen	ter <u>City/County:</u> Cat	o, Cayuga		Sampling Date: 2020-June-17		
Applicant/Owner: NextEra		State: NY	Sa	ampling Point: W-BT	F-07_PFO-1	
Investigator(s): Brenner Fahre	nz, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	): Swamp	Local relief (concave, conv	ex, none):(	Concave	Slope (%): 1 to 3	
Subregion (LRR or MLRA):	.RR R	Lat: 43.131952160	8 Long: -	76.6544834056	Datum: WGS84	
Soil Map Unit Name: Madalin	silt loam, sandy subsoil variant			NWI classification	n: PFO	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, e	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumsta	nces" present?	⁄es _ <b>_∕</b> _ No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.	1	
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tran	nsects, imp	oortant features, e	etc.	
Hydrophytic Vegetation Present	? Yes _ 🗸 No					
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area within	n a Wetland	? Yes	✓ No	
		i		<u></u>		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	ite iD.		IF-U/	
	ocedures here or in a separate report					
Covertype is PFO. Area is wetlan	d, all three wetland parameters are p	resent. Drought conditions	•			
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondary I	Indicators (minimum	of two required)	
	• • • • • • • • • • • • • • • • • • • •		-	Soil Cracks (B6)	or two required,	
Surface Water (A1)	⁄ Water-Stained Le ⁄ Aquatic Fauna (B			e Patterns (B10)		
High Water Table (A2) Saturation (A3)	Marl Deposits (B1		_	im Lines (B16)		
✓ Water Marks (B1)	Hydrogen Sulfide			son Water Table (C2)		
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	-	Burrows (C8)		
			✓ Saturatio	on Visible on Aerial In	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	or Stressed Plants (D	1)	
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	_ <b>∠</b> Geomor	phic Position (D2)		
Iron Deposits (B5)	Thin Muck Surfac	e (C7)	Shallow	Aquitard (D3)		
Inundation Visible on Aerial	Imagery (B7) Other (Explain in	Remarks)	✓ Microtop	pographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)		<u></u> FAC-Neu	utral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland Hy	drology Present?	Yes No	
Saturation Present?	Yes 🔽 No Depth	(inches): 10				
(includes capillary fringe)	·					
	n gauge, monitoring well, aerial photo	s provious inspections) if a	vailable:		<del></del> .	
Describe Recorded Data (stream	r gauge, monitoring well, aeriai photo	s, previous irispections), ir a	avallable.			
Remarks:						
The criterion for wetland hydrol	ogy is met.					

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	it 7	(A)
. Acer rubrum	60	Yes	FAC	Are OBL, FACW, or FAC:		(A)
2. Fraxinus pennsylvanica 3.	30	Yes	FACW	Total Number of Dominant Specie Across All Strata:	<sup>2S</sup> 7	(B)
l				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
i				Total % Cover of:	Multiply E	Bv:
·				OBL species 10	x 1 =	10
	90	= Total Cov	er	FACW species 113	x 2 =	226
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 80	x 3 =	240
. Fraxinus pennsylvanica	15	Yes	FACW	FACU species 0	_ x4=	0
. Rhamnus cathartica	10	Yes	FAC	UPL species 0	_ ^ x5=	0
3. Viburnum recognitum	10	Yes	FAC	Column Totals 203		476 (B)
Lindera benzoin	5	No	FACW		_ (A) _	470 (b)
				Prevalence Index = B/A		<del></del>
				Hydrophytic Vegetation Indicators		
·				1- Rapid Test for Hydrophyti	c Vegetation	
·	40	= Total Cov	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		_	Ci	$\checkmark$ 3 - Prevalence Index is ≤ 3.0	1	
. Equisetum pratense	40	Yes	FACW	4 - Morphological Adaptation	ns¹ (Provide s	upporting
2. Onoclea sensibilis	20	Yes	FACW	data in Remarks or on a separate		
-				Problematic Hydrophytic Ve		
3. Symplocarpus foetidus		No	OBL	Indicators of hydric soil and wetl	, .	y must be
A. Phalaris arundinacea	3	<u>No</u>	FACW	present, unless disturbed or prob	lematic	
5				Definitions of Vegetation Strata:		
5				Tree – Woody plants 3 in. (7.6 cm)		iameter a
7				breast height (DBH), regardless of	height.	
3.				Sapling/shrub – Woody plants les		BH and
).				greater than or equal to 3.28 ft (1		
0				Herb – All herbaceous (non-wood		ardless of
1				size, and woody plants less than 3		
2.				Woody vines – All woody vines gre	eater than 3.2	28 ft in
		= Total Cov	er	height.		
Noody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation Present?	Yes 🟒 No	o
 I.	0					
2.				•		
				•		
s 1.						
*·		T-t-LC-				
	0	_= Total Cov	er			

Depth	Matrix				tures		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 2/2	65	5YR 4/6	35	C	M/PL	Loam	
8 - 20	10YR 5/1	100					Sandy Loam	Black streaks of manganese thoughout
		· —		_				
				_				
				_				
Type: C =	Concentration, D =		ion RM = Reduce	 d Ma	trix MS =	Masked	Sand Grains 21	  Location: PL = Pore Lining, M = Matrix.
	Indicators:	Depiet	ion, Kivi - Keduce	a ivia	IV, IVIJ -	MONEU	Jana Grains, -L	Indicators for Problematic Hydric Soils <sup>3</sup> :
Black H Hydrog Stratifi Deplete Thick E Sandy Sandy Sandy Strippe Dark S	of (A1) ipipedon (A2) ilistic (A3) gen Sulfide (A4) ged Layers (A5) ged Below Dark Surform ork Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ged Matrix (S6) urface (S7) (LRR R, I s of hydrophytic ve	MLRA 14	Thin Dark St Loamy Muci Loamy Gley Depleted M.  1) Redox Dark Depleted Da Redox Depr	urfac ky Mi ed M atrix Surfa ark Su essio	e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F7 ns (F8)	R R, MLR. ) (LRR K, L	)	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic.
Restrictive	Layer (if observed)	):						
	Type: Depth (inches):		None			Hydric S	oil Present?	Yes No
Remarks: A positive	indication of hydrid	soil wa	is observed.					



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet Energy Cent	er <u>City/County:</u> Cato	o, Cayuga	Sampling Date: 2020-June-17
Applicant/Owner: NextEra		State: NY	Sampling Point: W-BTF-07_UPL-1
Investigator(s): Brenner Fahrer	ız, Ryan Snow	Section, Township,	Range:
Landform (hillslope, terrace, etc.):	Low Hill	Local relief (concave, conv	<b>ex, none):</b> Convex <b>Slope (%):</b> 2 to 5
Subregion (LRR or MLRA): LF	RR R	Lat: 43.132001354	4 Long: -76.6545946168 Datum: WGS84
Soil Map Unit Name: Palmyra g	gravelly loam, 8 to 15 percent slopes		NWI classification: None
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)
Are Vegetation <u></u> ✓, Soil <u>✓</u> ,	or Hydrology significantly dis		al Circumstances" present? Yes No
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in Remarks.)
Summary of Findings – A	ttach site map showing samplii	ng point locations, trar	sects, important features, etc.
Hydrophytic Vegetation Present?	Yes No <b>_✓</b> _		
Hydric Soil Present?	Yes No <b>_∠</b> _	Is the Sampled Area within	n a Wetland? Yes No/
Wetland Hydrology Present?	Yes No _ <b>_</b> _	If yes, optional Wetland Si	
	<del></del>		
·	ocedures here or in a separate report		re not normal due to agricultural activities. Drought
conditions.	, not all three wetland parameters are	e present. Circumstances a	re not normal due to agricultural activities. Drought
Conditions .			
HYDROLOGY			
Motton d I brahado a cha disetta an			
Wetland Hydrology Indicators:	one is required; shock all that apply		Secondary Indicators (minimum of two required)
•	one is required; check all that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B1 Marl Deposits (B1		Moss Trim Lines (B16)
Saturation (AS) Water Marks (B1)	Mari Deposits (Bi Hydrogen Sulfide		Dry-Season Water Table (C2)
Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	Crayfish Burrows (C8)
seament beposits (b2)	<u> </u>	icres on ziving Roots (cs)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial II	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave S	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 No
Saturation Present?	Yes No Depth	(inches):	
(includes capillary fringe)			
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if a	available:
	8 - 9 - 7 - 1 - 9 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	.,,	
Remarks:			
nemarks.			

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That		
1. Acer rubrum	28	Yes	FAC	Are OBL, FACW, or FAC:	1	(A)
2.				Total Number of Dominant Species	3	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:	33.3	(A/B)
5				Prevalence Index worksheet:		
6				- Total % Cover of:	Multiply I	Rv.
7				OBL species 0	x 1 =	0
	28	_= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 28	x 3 =	84
1	0			FACU species 25	x 4 =	100
2				UPL species 5	x 5 =	25
3				Column Totals 58	(A)	209 (B)
4				Prevalence Index = B/A =	3.6	
5				Hydrophytic Vegetation Indicators:	•	
6				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is > 50%	J	
	0	_= Total Cov	er	3 - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)	50			4 - Morphological Adaptations	1 (Provide s	supporting
1. Glycine max	50	Yes	NI	data in Remarks or on a separate sl	neet)	
2. Poa pratensis		No No	FACU	Problematic Hydrophytic Vege	etation¹ (Ex	plain)
3. Asclepias syriaca	5	No	UPL	¹Indicators of hydric soil and wetlar	,	gy must be
4				present, unless disturbed or proble	matic	
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o		liameter at
7.				breast height (DBH), regardless of h	_	NDII and
9.				Sapling/shrub – Woody plants less to greater than or equal to 3.28 ft (1 m		DH allu
10.				Herb – All herbaceous (non-woody)		ardless of
				size, and woody plants less than 3.2		,
11.				Woody vines – All woody vines grea		28 ft in
12	65	= Total Cov	·····	height.		
Woody Vine Stratum (Plot size:30 ft)		10tal Cov	CI	Hydrophytic Vegetation Present?	Yes N	0
Parthenocissus quinquefolia	15	Yes	FACU			
2.		103	17100	-		
3.				-		
4.				-		
	15	= Total Cov	er	-		
Remarks: (Include photo numbers here or on a separat	e sheet.)					
Active agricultural field.						

Profile Des	cription: (Describe Matrix	to the de	epth needed to de			indicato	or confirm the al	bsence of indicato	ors.)
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textı	ıre	Remarks
0 - 8	10YR 4/4	100	Color (IIIolac)		Турс		Gravelly		Kemarks
8 - 10	10YR 5/6	100					Silt Lo	-	
	1011(3/0	100		-			Sile Ed		
	•						•		
				_					
				_					
	•						•		
-				-		-			
	Concentration, D =	Depletio	n, KM = Reduced	Mati	rıx, MS =	wasked	Sand Grains. <sup>2</sup> Lo		Lining, M = Matrix.
Hydric Soil			Dala I D	~		0) (1.55	D 141 D4 4 400'	indicators for Pr	roblematic Hydric Soils³:
Histoso							R, MLRA 149B)		A10) (LRR K, L, MLRA 149B)
	oipedon (A2) istic (A3)		Thin Dark Su						e Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye			(LKK K, I	-)		Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface	
	d Below Dark Surf	ace (A11						•	elow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Sui	face (F7)	)			urface (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				nese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)								oodplain Soils (F19) (MLRA 149B)
Sandy F	Redox (S5)							Red Parent N	c (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, N</b>	/ILRA 149	9B)					Other (Expla	
3Indicators	of hydrophytic veg	otation	and wotland bydr	olom	, must b	o procor	et uplace dicturba	•	,
	Layer (if observed)		and Wetland Hydi	ology	y must b	e preser	it, uriless disturbe	d of problematic.	
	Type:		ard plan layer			Hvdric	Soil Present?		Yes No
	Depth (inches):		10	-		1.,,			
Remarks:	Deptir (interies).	_	10			ı			
Soil signific	antly disturbed as	a result (	of tilling. Refusal	due t	o coarse	fragme	nts.		
Ì									
ĺ									
1									



Photo of Sample Plot North



Photo of Sample Plot East



Project/Site: Garnet Energy Center	er City/County: Cato	o, Cayuga	Sampli	ing Date: 2020-June-17
Applicant/Owner: NextEra		State: NY	Sampling	g Point: W-BTF-08_PFO-1
Investigator(s): Brenner Fahren	z, Ryan Snow	Section, Township,	Range:	
Landform (hillslope, terrace, etc.):	Intermittent Stream	Local relief (concave, conv	ex, none): Concave	Slope (%): 1 to 3
Subregion (LRR or MLRA): LR	RR R	Lat: 43.133647069	3 <b>Long:</b> -76.6547	7816452 <b>Datum:</b> WGS84
Soil Map Unit Name: Niagara fi	ne sandy loam		NW	/I classification: PFO
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, explain i	n Remarks.)
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" p	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – At	ttach site map showing sampli	ng point locations, trar	sects, importan	t features, etc.
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No			
Hydric Soil Present?	Yes _ <b>✓</b> _ No	Is the Sampled Area withi	n a Wetland?	Yes No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si		W-BTF-08
	· · · · · · · · · · · · · · · · · · ·		te ib.	W-D11-06
	cedures here or in a separate report			- mindoned a sticking Bossela
	l, all three wetland parameters are p	resent. Circumstances are i	not normal due to a	igricultural activities. Drought,
hydrology gained from drainage t	tile.			
HADDOI UCA				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	one is required; check all that apply)		Secondary Indicato	ors (minimum of two required)
Surface Water (A1)	<u></u> Water-Stained Le	aves (B9)	Surface Soil Cra	
High Water Table (A2)	Aquatic Fauna (B´	13)	<u>✓</u> Drainage Patter	
_ <u>✓</u> Saturation (A3)	Marl Deposits (B1		Moss Trim Line	
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Wa	
Sediment Deposits (B2)	<u></u> Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrov	ole on Aerial Imagery (C9)
Drift Deposits (B3)	Processes of Radu	cod Iron (CA)		essed Plants (D1)
Algal Mat or Crust (B4)	Presence of Redu	ction in Tilled Soils (C6)	Stuffled of Stre	
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitar	
Inundation Visible on Aerial In			Microtopograpl	
Sparsely Vegetated Concave S		,	✓ FAC-Neutral Tes	
Field Observations:				
Surface Water Present?	Yes No Depth	(inches):		
Water Table Present?		(inches): 12	Wetland Hydrology	y Present? Yes No
Saturation Present?	·	(inches): 7	, , , , ,	
(includes capillary fringe)	тез по верии	(1110103).		
				<del></del>
Describe Recorded Data (stream)	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:	
Remarks:				

	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species Tha	it 4	(A)
40	Yes	FACW	Are OBL, FACW, or FAC:		
40	Yes	FAC	Total Number of Dominant Specie Across All Strata:	es 4	(B)
				100	(A/B)
				Multiply F	Rv.
					25
80	= Total Cove	er			190
			· -		120
0					0
			· -		0
			·	_	
					335 (B)
			Hydrophytic Vegetation Indicators	<b>::</b>	
			1- Rapid Test for Hydrophyti	c Vegetation	
	= Total Cove	ar .	2 - Dominance Test is >50%		
	_ Total Cove	-1	$\checkmark$ 3 - Prevalence Index is ≤ 3.0	1	
40	Voc	EACW			supporting
			-	-	y must be
	NO NO	OBL	· · · · · · · · · · · · · · · · · · ·	lematic	
			_		
			= -		iameter a
			='   <b> </b>		
					BH and
			.   `		
					ardless of
			-	eater than 3.2	28 ft in
80	= Total Cove	er	neight.		
	_		Hydrophytic Vegetation Present?	Yes 🔽 No	0
0					
			•		
			•		
			-		
	80 0 0 40 20 15 5	80 = Total Cove  0 = Total Cove  40	80 = Total Cover  0	Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species 25  FAC species 95  FAC species 0  UPL species 0  Column Totals 160  Prevalence Index = B/A  Hydrophytic Vegetation Indicators  1- Rapid Test for Hydrophytic  20 Yes OBL  15 No FACW  20 Yes OBL  15 No OBL  Problematic Hydrophytic Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of Sapling/shrub - Woody plants less greater than or equal to 3.28 ft (1 Herb - All herbaceous (non-wood size, and woody vines refeight.  BO = Total Cover  80 = Total Cover  Hydrophytic Vegetation Present?	Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply F  OBL species 25 x 1 = FACW species 95 x 2 = FACW species 40 x 3 = FACU species 0 x 4 = UPL species 0 x 5 = Column Totals 160 (A) Prevalence Index = B/A = 2.1  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide state in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Experiments)  Tree - Woody plants alian wetland hydrology present, unless disturbed or problematic  Definitions of Vegetation Strata: Tree - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, reg size, and woody vines greater than 3.3. height.  Hydrophytic Vegetation Present? Yes ✓ Norther Strata (100 m) or more in double that the problematic

(Inches) Color (moist) 9 Color	Depth _	cription: (Describe Matrix		Redo						·
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    **Location: PL = Pore Lining, M = Matrix.   Indicators for Problematic Hydric Soils*:   Histosol (A1)	(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texti	ure	Remarks
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,	0 - 20	10YR 3/2	90	10YR 3/6	10	C	M/PL	Silty Clay	y Loam	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,										
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K, L)  Find Dark Surface										
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,										
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,			_		_					
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,										
Hydric Soil Indicators:  Histosol (A1)			_		_					
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,			_		_					
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Find Dark Surface (F12) (LRR K, L)  Find Dark Surface (S9) (LRR K,	Tyne: C = 0	oncentration D =	Denle	tion RM = Reduce	ed Ma	trix MS :	= Masked	Sand Grains 21	ocation: PL = Por	 e Lining M = Matrix
Histic Epipedon (A2)			- cpic	,		, 1113	asicu			
Black Histic (A3)								•		
Hydrogen Sulfide (A4)		•								
Stratified Layers (A5)				•	-			•		
Depleted Below Dark Surface (A11)	Stratifie	d Layers (A5)		Depleted M	latrix	(F3)				
Sandy Mucky Mineral (S1)	'		ace (A						•	
							7)			
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches):  Type: None Depth (inches):  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Hydric Soil Present?  Yes ✓ No				Redox Dep	ressic	ns (F8)				
Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches):  None  Depth (inches):  Remarks:	-									
Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Other (Explain in Remarks)	_									
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes ✓ No  Depth (inches):  Remarks:	Strippe	d Matrix (S6)								
Restrictive Layer (if observed):  Type: Depth (inches):  Remarks:  Hydric Soil Present?  Yes _ ✓ No	Dark Su	ırface (S7) <b>(LRR R,</b> I	MLRA 1	49B)					-	
Type: None Hydric Soil Present? Yes _ No Depth (inches):  Remarks:				n and wetland hy	drolo	gy must l	be preser	t, unless disturbe	d or problematic	
Depth (inches):  Remarks:		=	):				ļ., ,, ,			
Remarks:				None			Hydric S	oil Present?		Yes No
		Depth (inches):								
A positive indication of hydric soil was observed.										
	A positive ii	ndication of hydric	soil w	as observed.						



Photo of Sample Plot North



Photo of Sample Plot East



Project/Site: Garnet Energy Center	er City/County: Cato	o, Cayuga	Sampling Date: 2020-June-17					
Applicant/Owner: NextEra		State: NY	Sampling Point: W	/-BTF-08_UPL-1				
Investigator(s): Brenner Fahren	ız, Ryan Snow	Section, Township, F	Range:					
Landform (hillslope, terrace, etc.):	Hillslope	Local relief (concave, conve	x, none): Convex	Slope (%): 2 to 5				
Subregion (LRR or MLRA): LF	RR R	Lat: 43.1333918882	Long: -76.6549294607	Datum: WGS84				
Soil Map Unit Name: Galen fine	e sandy loam, 2 to 6 percent slopes		NWI classifica	tion: None				
• •	s on the site typical for this time of ye	ear? Yes No _	✓ (If no, explain in Remarks	5.)				
Are Vegetation, Soil,	or Hydrology significantly di		l Circumstances" present?	Yes No				
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	explain any answers in Rema	rks.)				
Summary of Findings – A	ttach site map showing sampli	ng point locations, trans	sects, important feature	s, etc.				
Hydrophytic Vegetation Present?	Yes No <b>_∠</b> _							
Hydric Soil Present?	Yes No	Is the Sampled Area within	s the Sampled Area within a Wetland? Yes No/					
Wetland Hydrology Present?	Yes No <b>_</b> ✓	If yes, optional Wetland Sit	•					
			e ib.					
•	ocedures here or in a separate report		0.5					
Covertype is UPL. Area is upland,	, not all three wetland parameters ar	e present. Drought condition	ns.					
HYDROLOGY								
HIDROLOGI								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is required; check all that apply)	<u>.</u>	Secondary Indicators (minim	um of two required)				
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)					
High Water Table (A2)	Aquatic Fauna (B´	13)	Drainage Patterns (B10)					
Saturation (A3)	Marl Deposits (B1	5) -	Moss Trim Lines (B16) Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide							
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aeri	al Imageny (CQ)				
Duift Danasita (D2)	Dranen of Dody							
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ction in Tilled Soils (C6)	Stunted or Stressed Plant Geomorphic Position (D2					
Algal Mat of Crust (B4) Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)	)				
Inundation Visible on Aerial Ir			Microtopographic Relief (	D4)				
Sparsely Vegetated Concave S	· · ·		FAC-Neutral Test (D5)	,				
Field Observations:								
Surface Water Present?	Yes No <u></u> Depth	(inches):						
Water Table Present?		· —	Wetland Hydrology Present?	Yes No <b>∠</b>				
Saturation Present?		(inches):						
	resNo <b>/</b> Deptil	(IIICHES).						
(includes capillary fringe)								
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:					
Remarks:								

<u>rree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test workshee Number of Dominant Spec		1	(4)
. Pinus strobus	30	Yes	FACU	Are OBL, FACW, or FAC:		'	(A)
. Acer rubrum	15	Yes	FAC	Total Number of Dominant	Species	5	(B)
. Populus tremuloides	10	No	FACU	Across All Strata:			
Fraxinus pennsylvanica	5	No	FACW	Percent of Dominant Speci Are OBL, FACW, or FAC:	es That	20	(A/B)
5.				Prevalence Index workshee	et:		'
i				Total % Cover of:		Multiply	<u>Ву:</u>
·				OBL species	0	x 1 =	0
	60	_= Total Cov	er	FACW species	5	x 2 =	10
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	20	x 3 =	60
·	0			FACU species	95	x 4 =	380
				- UPL species	0	x 5 =	0
3.				- Column Totals	120	(A)	450 (B)
				Prevalence Index	c = B/A =	_	
				Hydrophytic Vegetation Inc			,
j				1- Rapid Test for Hydi		ogetation	
7				2 - Dominance Test is		egetation	
	0	= Total Cov	er	3 - Prevalence Index i			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Ada		(Provide	sunnorting
. Parthenocissus quinquefolia	20	Yes	FACU	data in Remarks or on a se			supporting
. Alliaria petiolata	20	Yes	FACU	Problematic Hydroph			plain)
3. Galium aparine	5	No	FACU	¹Indicators of hydric soil ar			
1. Toxicodendron radicans		No	FAC	present, unless disturbed		,	59 111030 00
5.				Definitions of Vegetation S	•		
5.				Tree – Woody plants 3 in. (		more in o	diameter a
7.				breast height (DBH), regard			
3.				Sapling/shrub – Woody pla		-	BH and
				greater than or equal to 3.			
				Herb – All herbaceous (nor	n-woody)	plants, reg	gardless of
				size, and woody plants less	than 3.2	8 ft tall.	
				Woody vines – All woody vi	ines great	er than 3.	28 ft in
2		= Total Cov	or	height.			
Moody Vina Stratum (Plat size: 20 ft )		_ 10tal COV	<b>C</b> 1	Hydrophytic Vegetation Pr	resent? \	′es N	0_/
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> ) I. <i>Vitis aestivalis</i>	10	Voc	FACU				
		Yes	FACU	-			
<u> </u>							
				•			
1				=			
	10	= Total Cov	er				

Depth (inches)	cription: (Describe Matrix	to the d	eptn needed to d Redox			ndicator or co	onfirm the al	osence of indi	cators.)
anches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Textur	· <b>Р</b>	Remarks
0 - 8	10YR 4/4	98	10YR 3/6	2	С		Loam		Kernarks
8 - 11	7.5YR 5/8	100	1011(3/0				Sandy Lo		
	7.511(3/6	100		-			Suriay E	<u> </u>	
				-					
				- —					-
				_					
				_					
				-					
				-					
				-					
				-					
	•			- —					
1Type: C = C	Concentration, D =	 Denletic	n RM = Reduced	Mati	rix MS =	Masked Sand	Grains 21	ncation: PL = P	ore Lining, M = Matrix.
Hydric Soil		Pepieric	ii, Kivi Keduced	iviali	IN, IVIJ -	iriaskeu sallu	Grains, L		r Problematic Hydric Soils³:
Histosol			Polyvalue Be	low S	urface (S	8) <b>(I RR R M</b> I	RA 149R)		•
	oipedon (A2)		Thin Dark Su						ck (A10) <b>(LRR K, L, MLRA 149B)</b> airie Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Muck				•		cky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)				face (S7) <b>(LRR K, L)</b>
Stratifie	d Layers (A5)		Depleted Ma	trix (f	-3)				e Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A11	· <del></del>					•	k Surface (S9) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Dar						iganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	SSIOR	IS (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Sp	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5)							Red Pare	nt Material (F21)
	d Matrix (S6) ırface (S7) <b>(LRR R, N</b>	AI DA 140	ופו					-	llow Dark Surface (TF12)
Dark Su	111ace (37) <b>(LKK K, K</b>	ILKA 14:	76)					Other (Ex	cplain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etation	and wetland hydr	olog	y must be	e present, un	ess disturbe	d or problema	tic.
Restrictive I	Layer (if observed):								
	Type:	H	ard pan layer	-		Hydric Soil F	resent?		Yes No⁄_
	Depth (inches):		11						
Remarks: No positive	indication of hydri	c soils w	as observed.						
I									



Photo of Sample Plot East



Photo of Sample Plot West



Project/Site: Garnet Energy Cent	ter City/County: Cate	o, Cayuga	Sam	npling Date: 2020	-June-17	
Applicant/Owner: NextEra		State: NY	Samp	ling Point: W-BTF-	Point: W-BTF-09_PFO-1	
Investigator(s): Brenner Fahre	nz, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	): Swamp	Local relief (concave, conv	ex, none): Conc	ave	Slope (%): 0 to 1	
Subregion (LRR or MLRA): L	.RR R	Lat: 43.137235816	3 <b>Long:</b> -76.65	.544537567 <u></u> [	Datum: WGS84	
Soil Map Unit Name: Palmyra	gravelly loam, 8 to 15 percent slopes			NWI classification:	PFO	
Are climatic/hydrologic condition	is on the site typical for this time of ye		_ <b>∠</b> (If no, expla	iin in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances	•	es No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any ansv	wers in Remarks.)		
Summary of Findings – A	Attach site map showing sampli	ng point locations, trai	nsects, import	ant features, et	c.	
Hydrophytic Vegetation Present	? Yes 🗸 No					
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area withi	n a Wetland?	Yes _	∠_ No	
Wetland Hydrology Present?	Yes <b>∠</b> _ No	If yes, optional Wetland S		W-BTF	-09	
	· · · · · · · · · · · · · · · · · · ·		ite ib.			
•	ocedures here or in a separate report					
Covertype is PFO. Area is wetian	d, all three wetland parameters are p	resent. Drought conditions	•			
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indic	cators (minimum o	f two required)	
✓ Surface Water (A1)	⁄ Water-Stained Le	aves (B9)	Surface Soil	Cracks (B6)		
<u>✓</u> High Water Table (A2)	⁄ Aquatic Fauna (B1	13)	Drainage Pat	tterns (B10)		
✓ Saturation (A3)	Marl Deposits (B1	15)		Trim Lines (B16)		
<u>✓</u> Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
✓ Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Bur		(60)	
- 16 - 11 - 12				isible on Aerial Ima		
Drift Deposits (B3)	Presence of Redu			Stressed Plants (D1)	)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic			
Iron Deposits (B5) Inundation Visible on Aerial I	Thin Muck Surfac Imagery (B7) — Other (Explain in		Shallow Aqu			
✓ Sparsely Vegetated Concave		Remarks)	✓ FAC-Neutral	raphic Relief (D4)		
Field Observations:	Surface (Bb)		I TAC-Neutral	1630 (D3)		
Surface Water Present?	Yes <u></u> ✓ No Depth	(inches): 1				
Water Table Present?	·	(inches): 3	Wetland Hydrol	logy Procent?	Vos. 4 No.	
	,	·	. Wedand Hydron	ogy Fresent:	Yes No	
Saturation Present?	Yes No Depth	(inches): 0	-			
(includes capillary fringe)						
. , , , , , , , , , , , , , , , , , , ,	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
Remarks:						
nemarks.						

Tree Stratum (Plot size: 30 ft )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t 4	(4)
. Acer rubrum	70	Yes	FAC	Are OBL, FACW, or FAC:	4	(A)
2. Betula alleghaniensis	15	No	FAC	Total Number of Dominant Specie	s 4	(B)
3. Acer saccharinum	5	No	FACW	Across All Strata:		
1.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		
5.				Prevalence Index worksheet:		_
·. ————————————————————————————————————				Total % Cover of:	Multiply E	-
	90	= Total Cov	er	OBL species 0	_ x1= _	0
Sapling/Shrub Stratum (Plot size: 15 ft )		_		FACW species 25	_ x 2 = _	50
. Fraxinus pennsylvanica	10	Yes	FACW	FAC species 85	_ x3= _	255
2. Lindera benzoin		Yes	FACW	FACU species 0	_ x 4 = _	0
3.				UPL species 0	_ x 5 = _	0
				Column Totals 110	_ (A) _	305 (B)
				Prevalence Index = B/A :	2.8	
				Hydrophytic Vegetation Indicators	:	
o. 7.				1- Rapid Test for Hydrophytic	Vegetation	
•	 15	= Total Cov	or	2 - Dominance Test is >50%		
Herb Stratum (Plot size: _ 5 ft)			Ci	$\checkmark$ 3 - Prevalence Index is $\le$ 3.0°		
. Lindera benzoin	5	Yes	FACW	_ <b>∠</b> 4 - Morphological Adaptation		supporting
			TACVV	data in Remarks or on a separate		
				Problematic Hydrophytic Ve	-	
3.				Indicators of hydric soil and wetla	-	y must be
4. -				present, unless disturbed or prob	ematic	
5.				Definitions of Vegetation Strata:		
5				Tree – Woody plants 3 in. (7.6 cm)		liameter a
7				breast height (DBH), regardless of		
3				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1		
0				Herb – All herbaceous (non-woody		ardless of
11				size, and woody plants less than 3		00 ft :
2				Woody vines – All woody vines green height.	ater than 3.2	28 IL III
	5	= Total Cov	er			
Noody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes N	0
l	0					
2.						
3.						
4.						
		= Total Cov	er			

(inches)	Matrix				ures				
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Text		Remarks
0 - 8	10YR 2/1	100					Org mat	ter Muck	
8 - 10	10YR 7/2			_					
				_					
				_					
				_					
				_					_
				_				_	_
				_					
				_					
				_					
				_					_
1Tup of C = C	Concentration D = 1		DM = Dodusod		six MC = I	Mackad	Cand Crains 21 o	estion: DL = Doro Li	ining M = Matrix
	Concentration, D = I	Depletion	i, Rivi = Reduced	Mati	rix, IVIS = 1	wasked	Sand Grains, 2LC	ocation: PL = Pore L	
Hydric Soil			Dobaralua Bal	۰،۰، ۲	urfaca (Ci	0\ <b>/  DD  </b>	D MI DA 140D)		olematic Hydric Soils³:
Histosol	r (AT) Dipedon (A2)	-	Polyvalue Bel Thin Dark Sur						0) (LRR K, L, MLRA 149B)
Black Hi	•	-	Loamy Mucky						Redox (A16) (LRR K, L, R)
	en Sulfide (A4)	-	Loamy Gleyed			,	•	5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)	-	Depleted Mat						ow Surface (S8) <b>(LRR K, L)</b>
	d Below Dark Surfa							Thin Dark Surf	
	ark Surface (A12)		Depleted Dar						se Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				odplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (	TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5)							Red Parent Ma	aterial (F21)
	d Matrix (S6) Irface (S7) <b>(LRR R, M</b>	II DA 140	D)					-	Oark Surface (TF12)
Dark 3u	111ace (37) (LKK K, W	ILIXA 143	ы,					Other (Explain	in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etation a	nd wetland hydr	olog	y must be	presen	t, unless disturbe	d or problematic.	
Restrictive I	Layer (if observed):								
	Type:	Ha	rd pan layer			Hydric	Soil Present?		Yes No
	Depth (inches):		8						
Remarks:									
A positive in	ndication of hydric	soil was	observed.						
	, <b>,</b>								



Photo of Sample Plot North



Photo of Sample Plot West



Project/Site: Garnet Energy Cent	er <u>City/County:</u> Cat	o, Cayuga	Sampling Dat	<b>e:</b> 2020-June-17		
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-BTF-09_UPL-1		
Investigator(s): Brenner Fahre	nz, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Hillslope	Local relief (concave, conv	ex, none): Convex	<b>Slope (%):</b> 5 to 10		
Subregion (LRR or MLRA): L	RR R	Lat: 43.137007588	2 <b>Long:</b> -76.654596198	9 Datum: WGS84		
Soil Map Unit Name: Palmyra	gravelly loam, 8 to 15 percent slopes		NWI classi	fication: None		
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Rema	arks.)		
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present?	? Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Re	marks.)		
SUMMARY OF FINDINGS - A	ttach site map showing sampli	ng point locations, trar	sects, important featu	ures, etc.		
Hydrophytic Vegetation Present	? Yes No _ <b>_</b> _					
Hydric Soil Present?	Yes No <b>_∠</b> _	Is the Sampled Area within	a Wetland?	Yes/_ No		
Wetland Hydrology Present?	—— —— Yes No <b></b> ∠	If yes, optional Wetland Sit		W-BTF-09		
	<del></del>		e iD.	VV-D1F-09		
	ocedures here or in a separate repor					
Covertype is UPL. Area is upland	, not all three wetland parameters ar	e present. Drought condition	ns.			
	·					
HYDROLOGY						
IIDKOLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (mir	nimum of two required)		
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6	5)		
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B1	0)		
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrows (C8)			
	<del></del>		Saturation Visible on A	Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Pl	ants (D1)		
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic Position (	(D2)		
Iron Deposits (B5)	Thin Muck Surfac	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial I	magery (B7) Other (Explain in	Remarks)	Microtopographic Reli	ef (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):	Wetland Hydrology Prese	nt? Yes No∠		
Saturation Present?		(inches):	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	···		
	тез No <u>_</u> Берит	(11101103).				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Species That	0	(4)
1. Acer saccharum	80	Yes	FACU	Are OBL, FACW, or FAC:	0	(A)
2. Fagus grandifolia	5	No	FACU	Total Number of Dominant Species	3	(B)
3.				Across All Strata:		(B)
4.	-			Percent of Dominant Species That	0	(A/B)
5.				Are OBL, FACW, or FAC:		(,,,,)
6.				Prevalence Index worksheet:		
7.	· ——			Total % Cover of:	Multiply	By:
/·		- Tatal Cau		OBL species 0	x 1 =	0
	85	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )	4.5		E4.611	FAC species 0	x 3 =	0
1. Acer saccharum	15	Yes	FACU	FACU species 130	x 4 =	520
2				UPL species 0	x 5 =	0
3				Column Totals 130	(A)	520 (B)
4				Prevalence Index = B/A =	4	-
5				Hydrophytic Vegetation Indicators:		·
6.				1- Rapid Test for Hydrophytic \	/egetation	,
7				2 - Dominance Test is > 50%	regetation	•
	15	= Total Cov	er	$3 - Prevalence Index is \le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provido	cupporting
1. Alliaria petiolata	20	Yes	FACU	data in Remarks or on a separate sh		supporting
2. Podophyllum peltatum	5	No	FACU	- Problematic Hydrophytic Vege		(nlain)
3. Trillium undulatum	5	No	FACU	¹Indicators of hydric soil and wetlan		
4.				present, unless disturbed or proble	•	gy must be
5.				Definitions of Vegetation Strata:	Tidere	_
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7.				breast height (DBH), regardless of h		didifficter at
8.	· ——			Sapling/shrub – Woody plants less t	_	OBH and
9.				greater than or equal to 3.28 ft (1 m		2211 0110
40				Herb – All herbaceous (non-woody)		gardless of
	· ——			size, and woody plants less than 3.2		g
11.				Woody vines – All woody vines grea		.28 ft in
12		Tatal Care		height.		
	30	= Total Cov	er	Hydrophytic Vegetation Present?	Yes 1	No ./
Woody Vine Stratum (Plot size: 30 ft )				yarapiiyaa ragatataan rasanti		
1.	0			-		
2				-		
3				-		
4				-		
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	te sheet.)			_		
	•					

Profile Des Depth	cription: (Describe t Matrix	o the de	pth needed to do			ndicator	r or confirm the al	bsence of indicator	rs.)
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture	Remarks
0 - 5	7.5YR 2.5/2	100	Color (moist)	<del>70</del>			Rocky S		Remains
						<u></u>			
				_ _ _		<u> </u>			
¹Type: C = 0	Concentration, D = [	Depletion	n, RM = Reduced	Matı	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore l	Lining, M = Matrix.
Hydric Soil									oblematic Hydric Soils³:
Black H Hydrog Stratifie Deplete Thick D Sandy N Sandy S Sandy F Dark Su	I (A1) pipedon (A2) istic (A3) en Sulfide (A4) ed Layers (A5) ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M	LRA 149	Thin Dark Sui Loamy Mucky Loamy Gleyed Depleted Mate Redox Dark Some Depleted Dare Redox Depre Redox Depre	face Mind Ma rix (F urfac k Sur ssior	(S9) (LRR eral (F1) trix (F2) F3) ce (F6) rface (F7) is (F8)	R, MLR.	.)	Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Flo Mesic Spodic Red Parent M Very Shallow	ow Surface (S8) (LRR K, L)  rface (S9) (LRR K, L)  ese Masses (F12) (LRR K, L, R)  odplain Soils (F19) (MLRA 149B)  (TA6) (MLRA 144A, 145, 149B)  laterial (F21)  Dark Surface (TF12)
-	Layer (if observed):	tation a	na wetiana nyai	olog,	y must be	Presen	it, uniess distarbe	d of problematic.	
	Type:	Har	d gravel layer			Hydric	Soil Present?		Yes No
Remarks:	Depth (inches):		5						
No positive	e indication of hydric	c soils wa	as observed.						



Photo of Sample Plot East



Photo of Sample Plot South



Project/Site: Garnet Energy Cent	er <u>City/County:</u> Cate	o, Cayuga	Sampling Date: 2020-June-18			
Applicant/Owner: NextEra		State: NY	State: NY Sampling Point: W-BTF-10_PEM-1			
Investigator(s): Brenner Fahrer	าz, Ryan Snow	Section, Township,	Range:	•		
Landform (hillslope, terrace, etc.):	: Swale	Local relief (concave, conv	ex, none): Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	RR R	Lat: 43.133192768	6 <b>Long:</b> -76.65017	785608 Datum: WGS84		
Soil Map Unit Name: Madalin s	silt loam, sandy subsoil variant	-	NWI	classification: PEM		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	(If no, explain in	Remarks.)		
Are Vegetation <u></u> ✓, Soil,	or Hydrology 🟒 significantly di	sturbed? Are "Norm	al Circumstances" pre	esent? Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers	in Remarks.)		
SUMMARY OF FINDINGS - A	attach site map showing sampli	ng point locations, trai	nsects, important	features, etc.		
Hydrophytic Vegetation Present?	? Yes _ 🗸 No		<u> </u>			
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area within	n a Watland?	Vos. / No.		
_		Is the Sampled Area withi		Yes No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	W-BTF-10		
Remarks: (Explain alternative pro	ocedures here or in a separate report	t)				
Covertype is PEM. Area is wetlan	d, all three wetland parameters are p	resent. Circumstances are	not normal due to ag	gricultural activities.		
Ditches/drain tiles observed. Dro	ought conditions.					
HYDROLOGY						
FIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicator	s (minimum of two required)		
✓ Surface Water (A1)	<u></u> Water-Stained Le	aves (B9)	Surface Soil Crac			
<u>✓</u> High Water Table (A2)	∕ Aquatic Fauna (B´	13)	_✓ Drainage Pattern	ıs (B10)		
∕ Saturation (A3)	Marl Deposits (B1	5)	Moss Trim Lines (B16)			
<u>✓</u> Water Marks (B1)	<u></u> Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
<u>✓</u> Sediment Deposits (B2)	<u></u> Oxidized Rhizosp	heres on Living Roots (C3)				
				e on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu		Stunted or Stress			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)			
<u>✓</u> Inundation Visible on Aerial II		Remarks)	Microtopographi			
Sparsely Vegetated Concave S	Surface (B8)		<u>✓</u> FAC-Neutral Test	(D5)		
Field Observations:						
Surface Water Present?	·	(inches): 1				
Water Table Present?	Yes No Depth	(inches): 12	Wetland Hydrology	Present? Yes No		
Saturation Present?	Yes No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
2000.100 11000.000 2010 (011 00.11	Baage,e	5, p. c				
Remarks:						
The criterion for wetland hydrolo	ogy is met.					

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test workshee Number of Dominant Spe		3	(A)
. Juglans nigra	15	Yes	FACU	Are OBL, FACW, or FAC: Total Number of Dominar	t Species		
·				Across All Strata:	•	4	(B)
				Percent of Dominant Spec Are OBL, FACW, or FAC:	ies That	75	(A/B)
5.				Prevalence Index workshe	et:		<del></del>
5.				Total % Cover of:		Multiply I	<u>Ву:</u>
7				- OBL species	90	x 1 =	90
	15	= Total Cove	er	FACW species	8	x 2 =	16
Sapling/Shrub Stratum (Plot size:15 ft)	4.0	V	OBL	FAC species	5	x 3 =	15
. Salix nigra	_ 10	Yes	OBL	FACU species	15	x 4 =	60
2. <u>Cornus alba</u>	8	Yes	FACW	- UPL species	0	x 5 =	0
				- Column Totals	118	(A)	181 (B)
•				Prevalence Inde	x = B/A =	1.5	
·				Hydrophytic Vegetation In	dicators:		.,
				1- Rapid Test for Hyd		egetation	
				✓ 2 - Dominance Test is			
	18	_= Total Cove	er	✓ 3 - Prevalence Index			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Ad		(Provide	supporting
I. Typha angustifolia	75	Yes	OBL	data in Remarks or on a se	•		
. Equisetum arvense	5	No	FAC	Problematic Hydrop			plain)
3. Lythrum salicaria	5	No	OBL	Indicators of hydric soil a	-		-
1				present, unless disturbed		-	
5.				Definitions of Vegetation S	Strata:		
5.				Tree - Woody plants 3 in.	(7.6 cm) or	more in c	liameter a
7.				breast height (DBH), regar			
3.				Sapling/shrub - Woody pl	ants less tl	han 3 in. D	BH and
9.				greater than or equal to 3	.28 ft (1 m	) tall.	
0.				Herb – All herbaceous (no			ardless of
11.				size, and woody plants les	s than 3.2	8 ft tall.	
2.				Woody vines – All woody v	ines great	er than 3.	28 ft in
	85	= Total Cove	er	height.			
Noody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation P	resent? \	∕es <u> </u>	0
l.	0						
2.				•			
				•			
o				•			
т.		= Total Cov	or	-			
4.		= Total Cove	er				

Profile Des	scription: (Describe Matrix	to the	depth needed to			indicato	r or confirm the	absence of indicat	tors.)
(inches)	Color (moist)	 %	Color (moist)			Loc <sup>2</sup>	Tox	ture	Remarks
			•		Type <sup>1</sup>				Remarks
0 - 16	10YR 3/2	90	10YR 5/4	10	C	M/PL		ilt Loam	
16 - 22	10YR 6/1	100						and	
¹Type: C =	Concentration, D =	Deplet	ion, RM = Reduce	d Ma	trix, MS =	= Masked	Sand Grains.	<sup>2</sup> Location: PL = Por	re Lining, M = Matrix.
	Indicators:		•		•				Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue B	elow :	Surface (	S8) <b>(LRR</b>	R. MLRA 149B)		•
	Epipedon (A2)		Thin Dark S		-		•		(A10) (LRR K, L, MLRA 149B)
	Histic (A3)		Loamy Muc						ie Redox (A16) (LRR K, L, R)
	gen Sulfide (A4)		Loamy Gley	ed Ma	atrix (F2)				y Peat or Peat (S3) <b>(LRR K, L, R)</b> ce (S7) <b>(LRR K, L)</b>
Stratifi	ed Layers (A5)		Depleted M	atrix (	(F3)				Below Surface (S8) <b>(LRR K, L)</b>
Deplet	ed Below Dark Surf	face (A1	1) Redox Dark	Surfa	ace (F6)				Surface (S9) <b>(LRR K, L)</b>
	Dark Surface (A12)		Depleted Da			7)			anese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)	)	Redox Depr	essio	ns (F8)			_	Floodplain Soils (F19) (MLRA 149B)
_	Gleyed Matrix (S4)								lic (TA6) (MLRA 144A, 145, 149B)
Sandy	Redox (S5)							Red Parent	
	ed Matrix (S6)								w Dark Surface (TF12)
Dark S	urface (S7) (LRR R, I	MLRA 1	49B)					-	lain in Remarks)
3Indicator	s of hydrophytic ve	gotation	and wotland by	Irolog	n, must k	ao procor	t uplace dictur	•	
	Layer (if observed)	_	i and welland hyt	II OIOE	gy must t	Je preser	it, uriless distur	bed of problematic	
Resultave	Type:	,.	None			Uvdric 9	Soil Present?	,	Yes/_ No
			None			liyunc	our resent:		ies NO
D	Depth (inches):								
Remarks:									



Photo of Sample Plot East



Photo of Sample Plot West



Project/Site: Garnet Energy Ce	nter City/County: Cato	o, Cayuga	Sampling Date: 2020	-June-18
Applicant/Owner: NextEra		State: NY	Sampling Point: W-BTF	-10_UPL-1
Investigator(s): Brenner Fahr	enz, Ryan Snow	Section, Township,	Range:	
Landform (hillslope, terrace, etc	c. <b>):</b> Flat	Local relief (concave, conv	x, none): Convex	Slope (%): 1 to 3
Subregion (LRR or MLRA):	LRR R	Lat: 43.133227385	Long: -76.6498564894	Datum: WGS84
Soil Map Unit Name: Madalin	n silt loam, sandy subsoil variant		NWI classification:	None
Are climatic/hydrologic condition	ons on the site typical for this time of ye	ar? Yes No	✓ (If no, explain in Remarks.)	
Are Vegetation 🟒, Soil 🟒	, or Hydrology significantly dis	sturbed? Are "Norma	Circumstances" present?	es No _ <b>_/</b>
Are Vegetation, Soil	, or Hydrology naturally probl	lematic? (If needed,	explain any answers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, trar	sects, important features, et	cc.
Hydrophytic Vegetation Preser	nt? Yes No/			
Hydric Soil Present?	Yes No	Is the Sampled Area within	a Wetland? Yes	No
		i		
Wetland Hydrology Present?	Yes No _ <b>_</b> _	If yes, optional Wetland Si	e ID:	
·	procedures here or in a separate report			
Covertype is UPL. Area is uplar	nd, not all three wetland parameters are	e present. Circumstances a	e not normal due to agricultural a	ctivities. Drought
conditions.				
contained in				
HYDROLOGY				
HIDKOLOGI				
Wetland Hydrology Indicators:				
Primary Indicators (minimum o	of one is required; check all that apply)		Secondary Indicators (minimum o	of two required)
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)	
Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	Crayfish Burrows (C8)	
	_ '	<b>3</b>	Saturation Visible on Aerial Im	agery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1	)
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aeria	l Imagery (B7) Other (Explain in I	Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concav	e Surface (B8)		FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes No Depth	(inches):		
Water Table Present?		(inches):	Wetland Hydrology Present?	Yes No _ <b>_∠</b>
Saturation Present?		(inches):	, , , , , , , , , , , , , , , , , , ,	
(includes capillary fringe)	163 140 <u></u> Beptil			
				<del>.</del>
Describe Recorded Data (strea	m gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:	
Remarks:				
nemarks.				

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant Sp		0	(A)
1.	0			Are OBL, FACW, or FAC:			
2.				Total Number of Domina	ant Species	1	(B)
3.				Across All Strata:			(5)
1				Percent of Dominant Sp	ecies That	0	(A/B)
5				Are OBL, FACW, or FAC:			(, (, 0, 0)
6.				Prevalence Index works	neet:		
· ·				<u>Total % Cover o</u>	<u>of:</u>	Multiply	<u>By:</u>
7				- OBL species	0	x 1 =	0
	0	_= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species	0	x 3 =	0
1	0			FACU species	10	x 4 =	40
2				UPL species	50	x 5 =	250
3				Column Totals	60	(A)	290 (B)
4				<u> </u>			290 (b)
5.				Prevalence Inc		4.8	<del></del> ;
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H	ydrophytic V	egetation	1
···-		= Total Cov	or	2 - Dominance Test	t is > 50%		
Herb Stratum (Plot size:5 ft)		- 10tal COV	<b>-</b> 1	3 - Prevalence Inde	$ex is \le 3.0^{1}$		
	FO	Voc	LIDI	4 - Morphological A	Adaptations <sup>1</sup>	(Provide	supporting
1. Zea mays	50	Yes	UPL	data in Remarks or on a	separate sh	ieet)	
2. Poa pratensis	10	No	FACU	Problematic Hydro	phytic Vege	tation¹ (E	xplain)
3				<sup>1</sup> Indicators of hydric soil	and wetlan	d hydrolo	gy must be
4				present, unless disturbe	d or probler	matic	
5				Definitions of Vegetation	n Strata:		
6				Tree – Woody plants 3 ir	n. (7.6 cm) or	more in	diameter at
7.				breast height (DBH), reg	ardless of h	eight.	
8.				Sapling/shrub - Woody	plants less tl	han 3 in.	DBH and
9.				greater than or equal to	3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous (r	non-woody)	plants, re	gardless of
11				size, and woody plants l	ess than 3.2	8 ft tall.	
11	<del></del>			Woody vines - All woody	y vines great	er than 3	.28 ft in
12	60	= Total Cov		height.			
Woods Vine Charles (Diet sizes 20 ft )		_ 10tal COV	<b>2</b> 1	Hydrophytic Vegetation	Present? \	∕es l	No 🗸
Woody Vine Stratum (Plot size: 30 ft )				, , , , , , , ,			
1	0			-			
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a se	narato choot )						
·	eparate sneet.)						
Active agricultural field.							

Depth _ (inches)	Matrix		Redox	(Feat		ndicator or conf	irm the absence	of indicators.)
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0 - 11	7.5YR 3/2	98	5YR 5/6	2	С	М	Silt Loam	
				- —				
			214 2 1	<u> </u>			. 21	
Type: C = C Hydric Soil I	Concentration, D = [	epietio	on, RM = Reduced	Mat	rix, MS =	Masked Sand Gr		n: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be	low S	Surface (S	8) (LRR R, MLRA	1.40D)	•
	oipedon (A2)		•			R, MLRA 149B)		cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b> oast Prairie Redox (A16) <b>(LRR K, L, R)</b>
Black Hi	stic (A3)		Loamy Muck	y Mir	neral (F1)	(LRR K, L)		cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					ark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					olyvalue Below Surface (S8) (LRR K, L)
'	d Below Dark Surfa	ce (A11						hin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da					on-Manganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depre	essior	ıs (F8)			iedmont Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)							lesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy R	edox (S5)							ed Parent Material (F21)
Stripped	d Matrix (S6)							ery Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b>	LRA 14	9B)					ther (Explain in Remarks)
Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must be	e present, unless		•
Restrictive L	_ayer (if observed):							
	Type:	H	ard pan layer	_		Hydric Soil Pres	sent?	Yes No⁄_
	Depth (inches):		11	_				
_								
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
Remarks: Soil significa	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					
	antly disturbed as a	result	of tilling.					

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet Energy Cent	ter City/County: Cate	o, Cayuga		Sampling Date: 20	20-June-18
Applicant/Owner: NextEra		State: NY		Sampling Point: W-B	TF-11_PFO-1
Investigator(s): Brenner Fahrei	nz, Ryan Snow	Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Swamp	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA): L	RR R	Lat: 43.139022360	3 <b>Long:</b>	-76.6512842625	Datum: WGS84
Soil Map Unit Name: Minoa fir	ne sandy loam			NWI classification	on: PFO
Are climatic/hydrologic condition	s on the site typical for this time of ye			explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di			ances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	y answers in Remark	5.)
				_	
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present	? Yes No				
Hydric Soil Present?	Yes _ <b>∠</b> _ No	Is the Sampled Area withi	n a Wetland	d? Yes	No
Wetland Hydrology Present?	Yes _ <b>_</b> _ No	If yes, optional Wetland Si	ite ID:	W-	BTF-11
	ocedures here or in a separate report				
•	•				
Covertype is PFO. Area is wetlan	d, all three wetland parameters are p	resent. Drought conditions			
	_				
HYDROLOGY					
Wetland Hydrology Indicators:					
	one is required; check all that apply)		Secondary	/ Indicators (minimur	n of two required)
•		(7.0)	•	e Soil Cracks (B6)	iror two required)
Surface Water (A1)	_ <u>✓</u> Water-Stained Le			ge Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B			rim Lines (B16)	
Saturation (A3)	Marl Deposits (B1			ason Water Table (C2	)
✓ Water Marks (B1)	Hydrogen Sulfide		-	sh Burrows (C8)	.,
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)		tion Visible on Aerial	Imagery (C9)
Drift Deposits (B3)	Presence of Redu	cod Iron (CA)		d or Stressed Plants (	
Drift Deposits (B3) Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	וטו
Iron Deposits (B5)	Thin Muck Surfac			w Aquitard (D3)	
Iron Deposits (B5) Inundation Visible on Aerial I	<del></del>				I)
	· · · · · · · · · · · · · · · · · · ·	Remarks)		opographic Relief (D4	+)
✓ Sparsely Vegetated Concave	Surface (B8)		✓ FAC-NE	eutral Test (D5)	
Field Observations:	V N 1	<i>e</i> 1 )			
Surface Water Present?	•	(inches):	-		
Water Table Present?	·	(inches):	Wetland H	lydrology Present?	Yes No
Saturation Present?	Yes No Depth	(inches):	_		
(includes capillary fringe)					
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s previous inspections) if a	available.		
Dry hole in data plot	Tadage, monitoring well, derial prioto	s, previous irispections, ire	available.		
Dry flole iii data piot					
Remarks:					
The criterion for wetland hydrolo	ogy is met.				
, , , , , , , , , , , , , , , , , , , ,					
1					

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test workshop  Number of Dominant Sp		3	(4)
1. Acer rubrum	35	Yes	FAC	Are OBL, FACW, or FAC:			(A)
2. Fraxinus pennsylvanica	35	Yes	FACW	Total Number of Domina	nt Species	3	(B)
3. Ulmus americana	15	No	FACW	Across All Strata:			
l. Populus deltoides	10	No	FAC	Percent of Dominant Spe Are OBL, FACW, or FAC:	cies That	100	(A/B)
5.				Prevalence Index worksh	eet:		<del></del> -
5				Total % Cover of	<u>f:</u>	Multiply E	3 <u>v:</u>
<u> </u>				- OBL species	0	x 1 =	0
	95	_= Total Cov	er	FACW species	55	x 2 =	110
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	45	x 3 =	135
. Ulmus americana	5	Yes	FACW	FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3.				Column Totals	100	(A)	245 (B)
k				Prevalence Ind		_	243 (b)
i.							
j				Hydrophytic Vegetation I			
7.				1- Rapid Test for Hy		egetation	
		= Total Cov	er	2 - Dominance Test			
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Index			
1	0			_✓ 4 - Morphological A			supporting
				data in Remarks or on a			
				Problematic Hydror			
3.				Indicators of hydric soil			gy must be
4				present, unless disturbed	d or problei	matic	
5				Definitions of Vegetation	Strata:		
5.				Tree – Woody plants 3 in.	(7.6 cm) oı	more in d	liameter a
7				breast height (DBH), rega	ardless of h	eight.	
3				Sapling/shrub - Woody p	lants less t	han 3 in. D	BH and
9.				greater than or equal to	3.28 ft (1 m	) tall.	
0.				Herb – All herbaceous (n	on-woody)	plants, reg	ardless of
11				size, and woody plants le	ss than 3.2	8 ft tall.	
12				Woody vines – All woody	vines great	er than 3.2	28 ft in
12		= Total Cov	or	height.			
Moody Vino Stratum (Blot size, 20 ft )		_ Total Cov	Ci	Hydrophytic Vegetation	Present? \	∕es 🗸 N	0
Noody Vine Stratum (Plot size: 30 ft )	0						
1	0			=			
2.							
3.							
4							
	0	= Total Cov	er				

	Matrix				ures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>		exture	Remarks
0 - 2	10YR 2/2	100						atter Loam	
2 - 15	10YR 4/3	80	10YR 3/6	20	C			Loam	
15 - 18	10YR 6/2	75	10YR 5/8	25	C	M	Fine San	dy Clay Loam	
		- —							
		- —							
		· —							
		-							
		· —							
		· —							
		· —							
		·_—.		. —				<del></del>	
	Concentration, D =	Depletion	on, RM = Reduce	d Matr	ıx, MS = I	Masked Sand	Grains. <sup>2</sup> Lo	ocation: PL = Pore Linin	
Hydric Soil			B				DA 4465'	Indicators for Probler	natic Hydric Soils³:
Histosol			Polyvalue Be						(LRR K, L, MLRA 149B)
HISTIC E	oipedon (A2) istic (A3)		Thin Dark Su Loamy Mucl				יםי <i>ן</i>	Coast Prairie Red	
	en Sulfide (A4)		Loamy Gley			LIXIX IX, L)		-	or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface (S7)	
Deplete	d Below Dark Surf	ace (A11						Polyvalue Below S	Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Da						Masses (F12) <b>(LRR K, L, R)</b>
	lucky Mineral (S1)		Redox Depr	ession	s (F8)				lain Soils (F19) <b>(MLRA 149B)</b>
-	Gleyed Matrix (S4)								i) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Mater	
	d Matrix (S6)							Very Shallow Dark	
Dark Su	rface (S7) <b>(LRR R, N</b>	MLRA 14	9B)					Other (Explain in	Remarks)
3Indicators	of hydrophytic veg	getation	and wetland hyd	rology	/ must be	present, un	ess disturbe	d or problematic.	
	Layer (if observed)					İ		,	
	Type:		Hard clay			Hydric Soil	Present?		Yes No
	Depth (inches):		18	-					
Remarks:									



Photo of Sample Plot North



Photo of Sample Plot East



Project/Site: Garnet Energy Center	er <u>City/County:</u> Cato	o, Cayuga	Sampling Date:	2020-June-18
Applicant/Owner: NextEra		State: NY	Sampling Point: W	/-BTF-11_UPL-1
Investigator(s): Brenner Fahren	z, Ryan Snow	Section, Township, R	ange:	
Landform (hillslope, terrace, etc.):	Terrace	Local relief (concave, conve	x, none): Convex	Slope (%): 1 to 3
Subregion (LRR or MLRA): LR	RR R	Lat: 43.1387306004	Long: -76.6512267385	Datum: WGS84
Soil Map Unit Name: Minoa fine	e sandy loam		NWI classifica	ntion: None
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No _	✓ (If no, explain in Remarks	s.)
Are Vegetation <u></u> ✓, Soil <u>✓</u> ,	or Hydrology significantly di		Circumstances" present?	Yes No _ <b>_/</b>
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	xplain any answers in Rema	rks.)
SUMMARY OF FINDINGS – At	ttach site map showing sampli	ng point locations, trans	sects, important feature	s, etc.
Hydrophytic Vegetation Present?	Yes No <b>_</b> ✓			
Hydric Soil Present?	Yes No <b>_</b> ✓_	Is the Sampled Area within	a Wetland?	Yes No <b>∠</b>
Wetland Hydrology Present?	Yes No _ <b>_</b>	If yes, optional Wetland Site		
			. 10.	
· ·	cedures here or in a separate report not all three wetland parameters are		a not normal due to agriculti	iral activities Drought
conditions.	not all tillee wettand parameters all	e present. circumstances art	thot normal due to agricult	arar activities. Drought
Conditions.				
HYDROLOGY				
Wetland Hydrology Indicators:				
• ••	one is required; check all that apply)	g	Secondary Indicators (minim	um of two required)
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)	<u> oo . equ eu,</u>
Surface Water (A1) High Water Table (A2)	Water-stained Lea		Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (	C2)
Sediment Deposits (B2)	, ,	heres on Living Roots (C3) -	Crayfish Burrows (C8)	
		-	Saturation Visible on Aeri	al Imagery (C9)
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plant	
Algal Mat or Crust (B4)	<del></del>	ction in Tilled Soils (C6)	Geomorphic Position (D2	)
Iron Deposits (B5)	Thin Muck Surface	· ·	Shallow Aquitard (D3)	D.A)
Inundation Visible on Aerial In		remarks) _	Microtopographic Relief (	D4)
Sparsely Vegetated Concave S Field Observations:	urrace (bo)		FAC-Neutral Test (D5)	
Surface Water Present?	Vos. No. / Donth	(inches):		
	'	· —		
Water Table Present?	'	(inches):	Netland Hydrology Present?	Yes No
Saturation Present?	Yes No Depth	(inches):		
(includes capillary fringe)				
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if av	ailable:	
Remarks:				

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?		cator	Dominance Test worksh Number of Dominant S			
1.	0	эрссісэ.		103	Are OBL, FACW, or FAC:	•	0	(A)
2.					Total Number of Domir	ant Species	1	(B)
3.					Across All Strata:		·	
4.					Percent of Dominant Sp		0	(A/B)
5.					Are OBL, FACW, or FAC: Prevalence Index works			
6					Total % Cover		Multiply I	Rv.
7					OBL species	0	x 1 =	0
	0	= Total Cov	ver		FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)					FAC species	0	x3=	0
1	0				FACU species	0	x 4 =	0
2					UPL species	0	x 5 =	0
3					Column Totals	0	(A)	0 (B)
4.					Prevalence In		_	<u> </u>
5					Hydrophytic Vegetation			
6.					1- Rapid Test for H		/egetation	
7					2 - Dominance Tes		egetation	
	0	= Total Cov	ver		3 - Prevalence Ind			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )					4 - Morphological		(Provide	sunnorting
1. <i>Glycine max</i>	20	Yes		NI	data in Remarks or on a			supporting
2					Problematic Hydro			plain)
3					¹Indicators of hydric so			
4					present, unless disturb			
5					Definitions of Vegetation			
6.					Tree – Woody plants 3 i		more in c	diameter at
7.					breast height (DBH), reg			
8.					Sapling/shrub - Woody	plants less tl	han 3 in. D	BH and
9.					greater than or equal to	3.28 ft (1 m	) tall.	
10.					Herb – All herbaceous (	non-woody)	plants, reg	gardless of
11.				_	size, and woody plants			
12.					Woody vines – All wood	ly vines great	er than 3.	28 ft in
	20	= Total Cov	ver		height.			
Woody Vine Stratum (Plot size:30 ft)		=			Hydrophytic Vegetation	n Present? \	/es N	0 🟒
1.	0							
2.								
3.								
4.								
··	0	= Total Cov	ver					
	-	-	-					
Remarks: (Include photo numbers here or on a separar	te sheet.)							
Active agricultural field.								

Profile Desc Depth	ription: (Describe Matrix	to the d	epth needed to d Redox			indicato	r or confirm the a	bsence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 10	10YR 3/3	100	Color (IIIoist)	- /0	Турс		Silt Loam	
10 - 16	10YR 3/6	100		_			Silt	
10 10	1011(3/0	100		_				
				_			_	
				_				
				_				
				_		-		
				_				
				-				<del></del>
				-		-		
				_				
				_				
				_				
	oncentration, D =	Depletic	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil I	ndicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			,				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck			(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa	260 (111	Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ace (ATT	Depleted Dark			١		Thin Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	leyed Matrix (S4)		Redox Depre	33101	13 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	l Matrix (S6)							Red Parent Material (F21)
	rface (S7) <b>(LRR R, N</b>	AI DA 140	OR)					Very Shallow Dark Surface (TF12)
Daik 3u	11ace (37) (EKK K, K	VILIXA 14.	96)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getation	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	ed or problematic.
Restrictive L	ayer (if observed)	:						
	Type:	H	ard pan layer			Hydric	Soil Present?	Yes No <u></u>
	Depth (inches):		16					
Remarks:								·
cc			C					
Soil significa	antly disturbed as	a result	of tilling.					



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet Energy Cent	er City/County: Cato	o, Cayuga	Sampling Date: 2020-June-18			
Applicant/Owner: NextEra		State: NY	Sa	mpling Point: W-BTI	12_PFO-1	
Investigator(s): Brenner Fahrer	ız, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Swamp	Local relief (concave, conv	ex, none): Co	oncave	Slope (%): 1 to 3	
Subregion (LRR or MLRA): LF	RR R	Lat: 43.142786568	4 Long: -7	6.6506949771	Datum: WGS84	
Soil Map Unit Name: Alluvial la	ınd			NWI classification	: PFO	
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, ex	kplain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di				′es No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any a	answers in Remarks.)		
Summary of Findings – A	ttach site map showing sampli	ng point locations, trar	nsects, imp	ortant features, e	tc.	
Hydrophytic Vegetation Present?	? Yes _ <b>✓</b> _ No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes _	No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si		W-BT	F-12	
	· · · · · · · · · · · · · · · · · · ·		ite ib.		1-12.	
	ocedures here or in a separate report					
Covertype is PFO. Area is wetland	d, all three wetland parameters are p	resent. Drought conditions	•			
HYDROLOGY						
IIIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		-	ndicators (minimum o	of two required)	
Surface Water (A1)	<u></u> Water-Stained Le	aves (B9)		Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B´		_	Patterns (B10)		
<u></u> Saturation (A3)	Marl Deposits (B1			m Lines (B16)		
<u>✓</u> Water Marks (B1)	Hydrogen Sulfide		-	on Water Table (C2) Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospi	heres on Living Roots (C3)	-	on Visible on Aerial Im	nagery (C9)	
( Drift Danasits (P2)	Processes of Radu	used Iron (CA)				
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ction in Tilled Soils (C6)		or Stressed Plants (D ohic Position (D2)	1)	
Iron Deposits (B5)	Thin Muck Surfac			Aquitard (D3)		
Inundation Visible on Aerial Ir				ographic Relief (D4)		
Sparsely Vegetated Concave S				tral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No 🟒 Depth	(inches):				
Water Table Present?		(inches):	Wetland Hvo	drology Present?	Yes No	
Saturation Present?		(inches): 4	i i i i i i i i i i i i i i i i i i i	2. 0.08) 000		
(includes capillary fringe)	тез <u>г</u> ио Берин	(111c11c3).	-			
- , , , , , , , , , , , , , , , , , , ,			l		_	
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	Γhat <b>4</b>	(4)
. Acer rubrum	60	Yes	FAC	Are OBL, FACW, or FAC:	4	(A)
2. Ulmus americana	30	Yes	FACW	Total Number of Dominant Spe	ecies 4	(B)
Fraxinus pennsylvanica	5	No	FACW	Across All Strata:		
k				Percent of Dominant Species T	hat <b>100</b>	(A/B)
5.				Are OBL, FACW, or FAC:		
5.				Prevalence Index worksheet:	Multiple	D. a
· -				Total % Cover of: OBL species 75	Multiply I	-
	95	= Total Cov	er	- OBL species 75 FACW species 65	x 1 =x 2 =	75
apling/Shrub Stratum (Plot size:15 ft)		_		·		130
. Ulmus americana	15	Yes	FACW	· -	x 3 =	195
2.					x 4 =	0
3.				UPL species 0	x 5 = _	0
l.				Column Totals 205	(A)	400 (B)
				Prevalence Index = E	/A =2	
				Hydrophytic Vegetation Indicat	ors:	
7.				1- Rapid Test for Hydroph	ytic Vegetation	
• -		= Total Cov	or	2 - Dominance Test is >50	9%	
Louis Chartering (Distriction - E.ft )	15	_ 10tal Cov	er	3 - Prevalence Index is ≤	3.0¹	
Herb Stratum (Plot size:5 ft)	75	V	ODI	4 - Morphological Adapta	tions¹ (Provide :	supporting
. Symplocarpus foetidus	75	Yes	OBL	data in Remarks or on a separ	ate sheet)	
2. Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic	Vegetation¹ (Ex	plain)
3. Impatiens pallida		No	FACW	landicators of hydric soil and w	etland hydrolog	gy must be
4. <u>Geum canadense</u>	5	<u>No</u>	FAC	present, unless disturbed or p	oblematic	
5				Definitions of Vegetation Strate	a:	
5				Tree – Woody plants 3 in. (7.6 o	m) or more in o	diameter a
7				breast height (DBH), regardles		
3.				Sapling/shrub – Woody plants		BH and
).				greater than or equal to 3.28 f		
0.				Herb – All herbaceous (non-wo		gardless of
11				size, and woody plants less tha		
2				Woody vines – All woody vines	greater than 3.	28 ft in
		= Total Cov	er	height.		
Noody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation Prese	nt? Yes 🟒 N	0
l.	0					
2.				•		
3.				-		
1.				-		
		= Total Cov	or	-		
		- Total Cov	Ci			

Profile Description: (Describe t				or or confirm the al	bsence of indicato	ors.)
Depth Matrix		dox Featu				
(inches) Color (moist)	% Color (mois		Type <sup>1</sup> Loc <sup>2</sup>	Textu		Remarks
0 - 7 10YR 3/2	80 10YR 4/6		C M	Silty Clay		
7 - 14 10YR 4/1	90 10YR 4/6	10	<u>C M</u>	Clay L	oam	
				-		
				-		
				-		
	-			-		
<sup>1</sup> Type: C = Concentration, D = D	Depletion, RM = Red	uced Matri	x, MS = Masked	d Sand Grains. <sup>2</sup> Lo		Lining, M = Matrix.
Hydric Soil Indicators:					Indicators for P	roblematic Hydric Soils³:
Histosol (A1)				R, MLRA 149B)	2 cm Muck (	A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)			59) <b>(LRR R, MLF</b>		Coast Prairie	e Redox (A16) <b>(LRR K, L, R)</b>
Black Histic (A3) Hydrogen Sulfide (A4)		ileyed Matr	ral (F1) <b>(LRR K,</b> ix (F2)	L)	-	Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted	-			Dark Surface	
Depleted Below Dark Surfa					-	elow Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Depleted	d Dark Surf	ace (F7)			urface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox D	epressions	(F8)			nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)						c (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)					Red Parent	
Stripped Matrix (S6)						v Dark Surface (TF12)
Dark Surface (S7) (LRR R, M	LRA 149B)				Other (Expla	
<sup>3</sup> Indicators of hydrophytic vege	etation and wetland	hydrology	must he nrese	nt unless disturbe		
Restrictive Layer (if observed):	tation and wettand	пуштогоду	mast be prese	rit, driicss distarbe	a or problematic.	
Type:	Hard pan layer		Hydri	c Soil Present?		Yes No
Depth (inches):	14					
Remarks:						



Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet Energy Center	er City/County: Cate	o, Cayuga	Sampling Date: 2020-June-18			
Applicant/Owner: NextEra		State: NY	Sampling Point: V	V-BTF-12_UPL-1		
Investigator(s): Brenner Fahren	ız, Ryan Snow	Section, Township, R	ange:			
Landform (hillslope, terrace, etc.):	Hillslope	Local relief (concave, conve	x, none): Convex	<b>Slope (%):</b> 5 to 10		
Subregion (LRR or MLRA): LF	RR R	Lat: 43.1428527916	Long: -76.6508692588	Datum: WGS84		
Soil Map Unit Name: Alluvial la	nd		NWI classific	ation: None		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No _	🗸 (If no, explain in Remark	s.)		
Are Vegetation, Soil,	or Hydrology significantly di		Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	xplain any answers in Rema	rks.)		
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trans	sects, important feature	es, etc.		
Hydrophytic Vegetation Present?	Yes No <b>_✓</b> _					
Hydric Soil Present?	Yes No _ <b>_⁄</b> _	Is the Sampled Area within	a Wetland?	Yes No/		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site				
	<del></del>		EID.			
•	ocedures here or in a separate report					
Covertype is UPL. Area is upland,	, not all three wetland parameters ar	e present. Drought condition	ns.			
HYDROLOGY						
Wetland Hydrology Indicators:		,				
Primary indicators (minimum of o	one is required; check all that apply)	<u> </u>	Secondary Indicators (minim	ium of two requirea)		
Surface Water (A1)	Water-Stained Le		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table	(C2)		
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)	(C2)		
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3) –	Saturation Visible on Aer	ial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	- ced Iron (C4)	Stunted or Stressed Plan	3 ,		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2	` '		
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)	-,		
Inundation Visible on Aerial Ir			Microtopographic Relief	(D4)		
Sparsely Vegetated Concave S	· · ·	_	FAC-Neutral Test (D5)	,		
Field Observations:						
Surface Water Present?	Yes No <u></u> Depth	(inches):				
Water Table Present?		· —	Netland Hydrology Present	Yes No _ <b>∠</b> _		
		· —	Welland Hydrology Fresents	res140 _ <b>_</b> /		
Saturation Present?	Yes No Depth	(inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if av	railable:			
Dama aultar						
Remarks:						

	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	4	(4)
40	Yes	FACU	Are OBL, FACW, or FAC:		(A)
25	Yes	FACU	Total Number of Dominant Species	6	(B)
15	No	FAC	Across All Strata:		
10	No	FACW		16.7	(A/B)
					`
					-
90	= Total Cov	er			0
	-	·			20
10	Yes	FAC		x 3 =	120
			· —	x 4 =	680
	163	TACO	- UPL species0	x 5 =	0
			Column Totals 220	(A)	820 (B)
			Prevalence Index = B/A =	3.7	
			Hydrophytic Vegetation Indicators:		
				/egetation	
				-8	
15	_= Total Cov	er	<del></del>		
				¹ (Provide si	upporting
80	Yes	FACU			apporting
10	No	FAC	·	-	lain)
5	No	FAC			
			,	, 0,	y mase be
			· · · · · · · · · · · · · · · · · · ·		
			_	r more in di	amotor a
					ameter a
			-	_	RH and
			- 1 - 7 - 7		orr arra
			_   -		ardless of
			-		11 01033 01
					8 ft in
			_		
95	_= Total Cov	er		Vos No	
			Hydrophytic vegetation Present?	res inc	) <u> </u>
20	Yes	FACU	_		
			-		
	40 25 15 10 90 10 5 15 80 10 5	25	40 Yes FACU 25 Yes FACU 15 No FAC 10 No FACW  90 = Total Cover  10 Yes FACU 5 Yes FACU  15 = Total Cover  80 Yes FACU 10 No FAC 5 No FAC	Are OBL, FACW, or FAC:   Total Number of Dominant Species Across All Strata:   Total Number of Dominant Species That Are OBL, FACW, or FAC:   Total Number of Dominant Species That Are OBL, FACW, or FAC:   Percent of Dominant Species That Are OBL, FACW, or FAC:   Prevalence Index worksheet: Total % Cover of:   OBL species	40 Yes FACU 25 Yes FACU 15 No FAC 10 No FACW  10 No FACW  Prevalence Index worksheet:  Total % Cover of:  10 Yes FACU  11 Yes FACU  12 Yes FACU  13 Yes FACU  14 Yes FACU  15 Yes FACU  16.7  17 Multiply B  18 Yes FACU  19 Yes FACU  10 Yes FACU  10 Yes FACU  11 Yes FACU  12 Yes FACU  13 Yes FACU  14 Hydrophytic Vegetation Indicators:  15 Yes FACU  16 Yes FACU  17 Yes FACU  18 Yes FACU  19 Yes FACU  19 Yes FACU  10 No FAC  10 No FAC  10 No FAC  11 Yes FACU  11 Yes FACU  12 Yes FACU  13 Yes FACU  14 Hydrophytic Vegetation Indicators:  15 Yes FACU  16 Yes FACU  17 Yes FACU  18 Yes FACU  19 Yes FACU  10 No FAC  10 No FAC  11 Yes FACU  11 Yes FACU  12 Yes FACU  13 Yes FACU  14 Hydrophytic Vegetations (Provide state in Remarks or on a separate sheet)  15 Problematic Hydrophytic Vegetation (Exprinciple in the indicators of hydric soil and wetland hydrology present, unless disturbed or problematic  15 Prevalence Index = B/A = 3.7  16.7  16 Yes FACU  17 Yes FACU  18 Yes FACU  19 Yes FACU  10 No FAC  10 Hydrophytic Vegetation (Exprinciple in the indicators of hydric soil and wetland hydrology present, unless disturbed or problematic  16 Yes Yes FACU  17 Yes FACU  18 Yes FACU  19 Yes FACU  10 No FAC  10 Yes FACU  11 Yes Yes FACU  12 Yes Yes FACU  13 Yes FACU  14 Hydrophytic Vegetation (Exprinciple in the indicators)  15 Yes FACU  16 Yes FACU  16 Yes Yes FACU  17 You Hultiply B  16 Yes FACU  18 Yes FACU  19 Yes FACU  10 Yes Yes FA

	cription: (Describe	to the de				indicato	r or confirm the	absence of indic	cators.)
Depth	Matrix		Redox				_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Text		Remarks
0 - 2	10YR 4/3	100		_			Rocky	Loam	
				_					_
				_					
				_					
				_					
								_	
				_					
				_					
				_				_	
				_					-
				_					-
1Typo: C = C	oncontration D =	Doplotic	n DM = Poducod	Mat	riv MC –	Macked	Sand Grains 2	Zlocation: DL = D	Poro Lining M - Matrix
		pehierio	n, rivi – reduced	ividl	i i, ivi5 =	iviaskeu	Janu Grallis, "		ore Lining, M = Matrix.
Hydric Soil			Deberston			50) (I DD	D MI DA 4 405°		r Problematic Hydric Soils³:
Histoso	I (A1) pipedon (A2)		Polyvalue Bel		-		•		ck (A10) <b>(LRR K, L, MLRA 149B)</b>
	istic (A3)		Loamy Mucky						airie Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye			(LKK K, I	-)	<del></del>	cky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	d Layers (A5)		Depleted Ma						face (S7) <b>(LRR K, L)</b>
	d Below Dark Surf								e Below Surface (S8) <b>(LRR K, L)</b>
•	ark Surface (A12)		Depleted Dar			)			k Surface (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				nganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)								t Floodplain Soils (F19) (MLRA 149B)
	Redox (S5)								odic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)								ent Material (F21)
	ırface (S7) (LRR R, N	/ILRA 149	9B)					-	llow Dark Surface (TF12)
			•					Other (Ex	cplain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hydr	olog	y must b	e preser	it, unless disturb	ed or problema	itic.
Restrictive	Layer (if observed)	:							
	Type:	H	ard pan later			Hydric	Soil Present?		Yes No/_
	Depth (inches):		2						
Remarks:									
Defucal due	to coarco fragma	nto							
Refusal due	e to coarse fragme	IILS.							

Soil Photos



Photo of Sample Plot East



Photo of Sample Plot South



Project/Site: Garnet Energy Center	er <u>City/County:</u> Cate	o, Cayuga	Sampling Date: 2020-June-1				
Applicant/Owner: NextEra		State: NY	S	ampling Point: W-BT	F-13_PFO-1		
Investigator(s): Brenner Fahren	nz, Ryan Snow	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	Swamp	Local relief (concave, conv	ex, none):	Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA): LF	RR R	Lat: 43.139786593	3 <b>Long:</b> -	-76.6555196709	Datum: WGS84		
Soil Map Unit Name: Niagara fi	ine sandy loam			NWI classification	n: PFO		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, e	explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumsta	ances" present?	Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.	)		
Summary of Findings – A	ttach site map showing sampli	ng point locations, trar	nsects, imp	portant features, e	etc.		
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No						
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland	? Yes	No		
		i			TF-13		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	ite iD.	VV-D	11-13		
	ocedures here or in a separate report						
Covertype is PFO. Area is wetland	d, all three wetland parameters are p	resent. Drought conditions	•				
HYDROLOGY							
Wetland Hydrology Indicators:							
	one is required; check all that apply)		Secondary	Indicators (minimum	of two required)		
•	• • • • • • • • • • • • • • • • • • • •		•	Soil Cracks (B6)	or two required,		
Surface Water (A1)	<u>✓</u> Water-Stained Le Aquatic Fauna (B			ge Patterns (B10)			
High Water Table (A2) Saturation (A3)	Aquatic Fauria (B Marl Deposits (B1		-	rim Lines (B16)			
Saturation (AS) Water Marks (B1)	Hydrogen Sulfide			ason Water Table (C2)			
Sediment Deposits (B2)		heres on Living Roots (C3)	-	n Burrows (C8)			
	<u> </u>		Saturat	ion Visible on Aerial II	magery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	d or Stressed Plants (E	01)		
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	_ <b>∠</b> Geomo	rphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfac	e (C7)	Shallow	Aquitard (D3)			
Inundation Visible on Aerial Ir	magery (B7) Other (Explain in	Remarks)	✓ Microto	pographic Relief (D4)			
Sparsely Vegetated Concave S	Surface (B8)		<u></u> ✓ FAC-Ne	utral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No Depth	(inches):	_				
Water Table Present?	Yes No Depth	(inches):	Wetland Hy	ydrology Present?	Yes _ <b>∠</b> _ No		
Saturation Present?	Yes No Depth	(inches):					
(includes capillary fringe)		· · ·	-				
· · · · · · · · · · · · · · · · · · ·	gauge, monitoring well, aerial photo	s provious inspections) if s	u silablar				
Describe Recorded Data (stream	gauge, monitoring well, aeriai prioto	s, previous irispections), ii a	avallable.				
Remarks:							

ree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That	6	(A)
. Acer rubrum	70	Yes	FAC	Are OBL, FACW, or FAC:		
. Ulmus americana	20	Yes	FACW	Total Number of Dominant Species	7	(B)
Fraxinus pennsylvanica	5	No	FACW	Across All Strata:		<u> </u>
·				Percent of Dominant Species That Are OBL, FACW, or FAC:	85.7	(A/B)
·				Prevalence Index worksheet:	-	
				Total % Cover of:	Multiply E	Rv.
·				OBL species 15	x 1 =	15
	95	= Total Cov	ver .	FACW species 110	x 2 =	220
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 90	x 3 =	270
. Lindera benzoin	25	Yes	FACW	FACU species 35	x 4 =	140
Ulmus americana	10	Yes	FACW	UPL species 0	x 5 =	0
·				Column Totals 250	(A)	645 (B)
· <u></u>				Prevalence Index = B/A =	_	045 (B)
				Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic	Vegetation	
	35	= Total Cov	ver	2 - Dominance Test is >50%		
erb Stratum (Plot size:5 ft)	-	_		3 - Prevalence Index is ≤ 3.0¹	1.0	
. Carex rosea	35	Yes	FACU	4 - Morphological Adaptations		upporting
Poa palustris	20	Yes	FACW	data in Remarks or on a separate s		alain)
. Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic Vego 1 Indicators of hydric soil and wetlan		
. Scirpus atrovirens	10	No	OBL	present, unless disturbed or proble	, .	y must be
. Fraxinus pennsylvanica	10	No	FACW	Definitions of Vegetation Strata:	matic	
. Impatiens capensis	10	No	FACW	Tree – Woody plants 3 in. (7.6 cm) of	r more in d	ismotor s
Sisyrinchium angustifolium	5	No	FAC	breast height (DBH), regardless of l		iairietei a
Symplocarpus foetidus		No	OBL	Sapling/shrub – Woody plants less		BH and
. Sympiocarpus roccidus				greater than or equal to 3.28 ft (1 n		2
				Herb – All herbaceous (non-woody		ardless of
<u>'</u>	- ——			size, and woody plants less than 3.		
1	- ——			Woody vines – All woody vines grea	ter than 3.2	28 ft in
2	105	= Total Cov	·or	height.		
loody Vino Stratum (Plot size, 20 ft )	103	_ TOTAL COV	rei	Hydrophytic Vegetation Present?	Yes 🗸 No	0
Noody Vine Stratum (Plot size: <u>30 ft</u> )  Novicodendron radicans	15	Voc	FAC			
		Yes	FAC	-		
·						
	15	_= Total Cov	ver .			

Profile Des	cription: (Describe Matrix	to the d	epth needed to o			ndicato	r or confirm the a	bsence of indicators.)
(inches)	Color (moist)	%	Color (moist)	% %	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture Remarks
0 - 10	10YR 2/2	100	Color (IIIolat)		Турс			am
10 - 16	10YR 4/6	90	7.5YR 4/6	10		M	-	ndy Loam
10 10	10111 170		7.511(1)0				- 1110 341	Louin
								· · · · · · · · · · · · · · · · · · ·
								<del></del>
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								<del></del>
								<del></del>
				_				
¹Tvpe: C = 0	Concentration, D =	Depletion	on. RM = Reduced	d Matı	ix. MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil			,		.,			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Re	low S	urface (S	8) <b>(LRR</b> I	R, MLRA 149B)	•
	pipedon (A2)		Thin Dark Su					2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black H	stic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, I	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A11						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12) Jucky Mineral (S1)		Depleted Da Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
•	Gleyed Matrix (S4)		Redox Depre	233101	15 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) <b>(LRR R, N</b>	/II RΔ 1/	.9R)					Very Shallow Dark Surface (TF12)
Dark 30	riace (37) (Entrity in	VILIO ( 1-	36)					Other (Explain in Remarks)
	of hydrophytic veg		and wetland hyd	rology	/ must be	preser	nt, unless disturbe	d or problematic.
	Layer (if observed)							
	Type:	H	ard pan layer	-		Hydric	Soil Present?	Yes No
	Depth (inches):		16					
Remarks:								

Vegetation Photos



Soil Photos



Photo of Sample Plot East



Photo of Sample Plot West



Project/Site: Garnet En	ergy Center	City/County: Cato	o, Cayuga		Sampling Date: 202	0-June-18
Applicant/Owner: Ne	extEra		State: NY		Sampling Point: W-BT	F-13_UPL-1
Investigator(s): Breni	ner Fahrenz, Ryan Snow	·	Section, Township,	Range:		
Landform (hillslope, ter	race, etc.): Terrace		Local relief (concave, conv	ex, none):	Convex	Slope (%): 2 to 5
Subregion (LRR or MLR	A): LRR R		Lat: 43.139585346	5 Long:	-76.6563776504	Datum: WGS84
Soil Map Unit Name:	Galen fine sandy loam,	2 to 6 percent slopes			NWI classification	: None
Are climatic/hydrologic	conditions on the site t	pical for this time of ye	ar? Yes No	_ <b>∠</b> (If no,	explain in Remarks.)	
•		ogy 🟒 significantly dis			· ·	′es No <b></b> _
Are Vegetation,	Soil, or Hydrolo	ogy naturally probl	ematic? (If needed,	explain an	y answers in Remarks.)	
SUMMARY OF FIND	INGS – Attach site n	nap showing sampli	ng point locations, trar	nsects, im	nportant features, e	tc.
Hydrophytic Vegetatio		Yes No			<u> </u>	
Hydric Soil Present?		Yes No	Is the Sampled Area withi	n a Wetlan	d? Yes	No/_
Wetland Hydrology Pre	esent?	Yes No	If yes, optional Wetland Si	ite ID:		
		or in a separate report				
Covertype is UPL. Area Ditches/drain tiles obs	•	wetland parameters are	e present. Circumstances a	re not nor	mal due to agricultural	activities.
HYDROLOGY Wetland Hydrology Inc	licators: nimum of one is require	ed; check all that apply)		Secondar	y Indicators (minimum	of two required)
Surface Water (A1)		Water-Stained Lea	2VAC (RQ)		e Soil Cracks (B6)	
High Water Table (A	42)	Aquatic Fauna (B1			age Patterns (B10)	
Saturation (A3)	•	Marl Deposits (B1			Trim Lines (B16)	
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)	-	eason Water Table (C2)	
Sediment Deposits	(B2)	Oxidized Rhizosph	neres on Living Roots (C3)	-	sh Burrows (C8) ation Visible on Aerial In	22607/(C0)
Drift Deposits (B3)		Processo of Rodu	cod Iron (CA)		ed or Stressed Plants (D	
Algal Mat or Crust (	R4)	Presence of Reduce	ction in Tilled Soils (C6)		orphic Position (D2)	1)
Iron Deposits (B5)	<i>5</i> 1)	Thin Muck Surface			w Aquitard (D3)	
	on Aerial Imagery (B7)	Other (Explain in I			topographic Relief (D4)	
Sparsely Vegetated	Concave Surface (B8)			FAC-N	eutral Test (D5)	
Field Observations:						
Surface Water Present	? Yes	No 🟒 Depth	(inches):	_		
Water Table Present?	Yes	No Depth	(inches):	Wetland I	Hydrology Present?	Yes No
Saturation Present?	Yes	No Depth	(inches):			
(includes capillary fring	ge)					
Describe Recorded Da	ta (stream gauge, monit	coring well, aerial photo	s, previous inspections), if a	available:		
Remarks:						
Remarks.						

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	0	(4)
1.	0			Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species	2	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species That	0	(A/B)
5.				Are OBL, FACW, or FAC:		
6.			-	Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
/·	0	= Total Co		OBL species 0	x 1 =	0
Capling/Chruh Ctratum (Dlat circu 15 ft )		_ 10tal C0	VCI	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )	0			FAC species 0	x 3 =	0
1	0			- FACU species 20	x 4 =	80
2.				UPL species 0	x 5 =	0
3				- Column Totals 20	(A)	80 (B)
4				Prevalence Index = B/A =	4	
5				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic	Vegetation	1
7				2 - Dominance Test is > 50%	vegetation	
	0	= Total Co	ver	$3 - Prevalence Index is \le 3.0^{\circ}$		
Herb Stratum (Plot size: 5 ft )					1 (Dravida	cupporting
1. <i>Glycine max</i>	35	Yes	NI	4 - Morphological Adaptations  data in Remarks or on a separate s		supporting
2. Tussilago farfara	15	Yes	FACU	<ul> <li>Udata in Kennarks of on a separate si</li> <li>Problematic Hydrophytic Vege</li> </ul>		(nlain)
3. Arctium minus	5	No	FACU	<ul> <li>Indicators of hydric soil and wetlar</li> </ul>	-	
4.				_ present, unless disturbed or proble		gy must be
5.		-	-	Definitions of Vegetation Strata:	induc	
6.				Tree – Woody plants 3 in. (7.6 cm) o	r moro in	diameter at
7.				breast height (DBH), regardless of h		ularrieter at
8.				Sapling/shrub - Woody plants less		ORH and
9.			-	greater than or equal to 3.28 ft (1 m		JBIT and
-			-	Herb – All herbaceous (non-woody)		gardless of
10.				size, and woody plants less than 3.2		gar aress or
11				- Woody vines – All woody vines grea		.28 ft in
12				height.		
	55	= Total Co	ver	Hydrophytic Vegetation Present?	Voc N	lo /
Woody Vine Stratum (Plot size: 30 ft )				Trydrophytic vegetation Fresent:	163 1	NO _ <b>_</b>
1	0			_		
2				_		
3				_		
4				_		
	0	= Total Co	ver			
Remarks: (Include photo numbers here or on a separat	o choot )	=				
Active agricultural field.	e sileet.)					
Active agricultural field.						

Depth _ (inches)	Matrix		Redox			ndicator	or confirm the al	osence of indicators.)
(IIICHES)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0 - 6	10YR 3/2	100	· · · · · ·	_	<u> </u>		Silt Loam	
6 - 11	10YR 3/3	85	10YR 4/4	15	C	M	Loam	
¹Type: C = (	Concentration, D =	Depletion	on, RM = Reduced	Mati	rix, MS =	Masked S	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be	low S	urface (S	8) <b>(LRR R</b>	, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark Su	ırface	(S9) (LRR	R, MLRA	149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck			(LRR K, L)	1	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Layers (A5)	(844	Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf ark Surface (A12)	ace (A i i	Depleted Da					Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)				.5 (. 5)			Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	ırface (S7) <b>(LRR R, N</b>	/ILRA 14	9B)					Very Shallow Dark Surface (TF12)
								Other (Explain in Remarks)
	of hydrophytic veg		and wetland hyd	rolog	y must be	e present	, unless disturbe	d or problematic.
	Layer (if observed)					Listedad a d	: :! D	V N- /
	Type:	Hã	ard pan layer			Hyaric	Soil Present?	Yes No
	Depth (inches):	_	11					<u> </u>
Remarks:								
Soil signific	antly disturbed as	a result	of tilling.					

Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet Energy Cent	ter City/County: Cate	o, Cayuga	20-June-18			
Applicant/Owner: NextEra		State: NY		Sampling Point: W-BTF-14_PEM-1		
Investigator(s): Brenner Fahrer	nz, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Hillslope	Local relief (concave, conve	ex, none):_	Concave	Slope (%): 1 to 3	
Subregion (LRR or MLRA): LI	RR R	Lat: 43.136156232	7Long:_	-76.6542013948	Datum: WGS84	
Soil Map Unit Name: Madalin s	silt loam, sandy subsoil variant			NWI classificatio	on: PEM	
Are climatic/hydrologic condition:	s on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di			ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	y answers in Remarks	5.)	
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tran	isects, im	portant features,	etc.	
Hydrophytic Vegetation Present?	? Yes _ 🗸 No					
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland	d? Yes	No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si			3TF-14	
			te ib.		711-14	
	ocedures here or in a separate report			laka ka ami'naka mala	ativiti a Duanalat	
	nd, all three wetland parameters are p	present. Circumstances are	not norma	I due to agricultural a	ctivities. Drought	
conditions.						
HADBUI UCA						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary	Indicators (minimun	n of two required)	
Surface Water (A1)	✓ Water-Stained Le	aves (B9)		e Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B´	13)		ge Patterns (B10)		
∕ Saturation (A3)	Marl Deposits (B1	5)		rim Lines (B16)		
<u></u> Water Marks (B1)	Hydrogen Sulfide		-	ason Water Table (C2	)	
✓ Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	-	h Burrows (C8) tion Visible on Aerial I	magary (CQ)	
Duift Danasita (D2)	Duagan as of Dadu	and lune (CA)				
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ced fron (C4) ction in Tilled Soils (C6)		d or Stressed Plants ( orphic Position (D2)	(וט	
Iron Deposits (B5)	Thin Muck Surfac			v Aquitard (D3)		
Inundation Visible on Aerial I				opographic Relief (D4	)	
Sparsely Vegetated Concave		inciniario,		eutral Test (D5)	,	
Field Observations:						
Surface Water Present?	Yes No 🟒 Depth	(inches):				
Water Table Present?			Wetland H	lydrology Present?	Yes No	
Saturation Present?		(inches):		., a. o.og, coc		
(includes capillary fringe)	res <u>v</u> 110 Deptil	(11101103).				
- , , , , , , , , , , , , , , , , , , ,					<del></del>	
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						

Tree Stratum (Plot size:30 ft)		Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	4	(A)
1. <i>Ulmus americana</i>	50	Yes	FACW	Are OBL, FACW, or FAC:		
2. Salix amygdaloides	15	Yes	FACW	Total Number of Dominant Species Across All Strata:	5	(B)
3. <i>Fraxinus pennsylvanica</i>	5	No	FACW	Percent of Dominant Species That		
4				- Are OBL, FACW, or FAC:	80	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	By:
7				- OBL species 0	x 1 =	0
	70	_= Total Cov	er	FACW species 160	x 2 =	320
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 10	x 3 =	30
1				FACU species 20	x 4 =	80
2				- UPL species 0	x 5 =	0
3				- Column Totals 190	(A)	430 (B)
4				Prevalence Index = B/A =	2.3	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic \	/egetation	1
7				2 - Dominance Test is >50%		
	0	_= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	¹ (Provide	supporting
1. <i>Phalaris arundinacea</i>	65	Yes	FACW	data in Remarks or on a separate sh		11 0
2. <u>Solidago gigantea</u>	25	Yes	FACW	Problematic Hydrophytic Vege	tation¹ (Ex	(plain)
3. Equisetum arvense	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetlan	d hydrolo	gy must be
4. Asclepias speciosa	5	No	FAC	present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h	-	
8				Sapling/shrub – Woody plants less t		DBH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2  Woody vines – All woody vines grea		20 ft in
12				height.	ter triair 5	.20 11 111
	100	_= Total Cov	er			1-
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	res i	NO
1. Vitis aestivalis	20	Yes	FACU	_		
2				_		
3				_		
4.				_		
	20	_= Total Cov	er			
Remarks: (Include photo numbers here or on a separa	te sheet.)					
Fallow field.	7					

	•	to the	•			indicato	r or confirm the al	sence of indicators.)	
Depth _	Matrix		Redox			12	Taratrana		Damanka
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 6	10YR 2/2	90	10YR 4/6	10		<u>M</u>	Loam	<del></del>	
6 - 18	10YR 2/2	95	10YR 3/4	_5_	C	<u>M</u>	Clay Loar	<u> </u>	
		- —		· —					
		- —		-			-		
				· —					
				· —					
								<del></del>	
		_	-				-		
¹Tvpe: C = 0	Concentration, D =	 Deplet	ion, RM = Reduce	d Mat	rix. MS =	Masked	Sand Grains. <sup>2</sup> Lo	cation: PL = Pore Lining	, M = Matrix.
Hydric Soil		1	,		· · ·			Indicators for Problem	
Histoso			Polyvalue B	elow S	Surface (S	88) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) <b>(</b> L	•
Histic Ep	oipedon (A2)		Thin Dark S					Coast Prairie Redox	
	istic (A3)		Loamy Muc			(LRR K,	L)	<del></del>	r Peat (S3) <b>(LRR K, L, R)</b>
, 0	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (I	
	d Layers (A5) d Below Dark Surfa	(11	Depleted M					Polyvalue Below Su	rface (S8) <b>(LRR K, L)</b>
'	d Below Dark Surfa ark Surface (A12)	ace (A I	Depleted Da			)		Thin Dark Surface (	
	Mucky Mineral (S1)		Redox Depr			,			asses (F12) <b>(LRR K, L, R)</b>
	Gleyed Matrix (S4)				- ( - /			•	in Soils (F19) (MLRA 149B)
-	Redox (S5)							•	(MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Materia	
	rface (S7) (LRR R, M	ILRA 1	49B)					Very Shallow Dark : Other (Explain in Re	
21 1: .	61 1 1								erriar K3)
	of hydrophytic veg Layer (if observed):		n and wetland nyc	irolog	y must b	e preser	it, uniess disturbe	or problematic.	
	Type:		None			Hvdric	Soil Present?	Yes _✓_ No	
	Depth (inches):			•					
Remarks:									
A positive ii	ndication of hydric	soil wa	as observed.						
1									
Ì									

## Vegetation Photos





Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet Energy Center	er City/County: Cate	o, Cayuga	Sampling Date:	2020-June-18		
Applicant/Owner: NextEra		State: NY	Y Sampling Point: W-BTF-14_UPL-1			
Investigator(s): Brenner Fahren	ız, Ryan Snow	Section, Township, F	Range:			
Landform (hillslope, terrace, etc.):	Low Hill	Local relief (concave, conve	x, none): Convex	Slope (%): 2 to 5		
Subregion (LRR or MLRA): LF	RR R	Lat: 43.1361671069	Long: -76.6545836548	Datum: WGS84		
Soil Map Unit Name: Madalin s	silt loam, sandy subsoil variant		NWI classifica	ation: None		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No _	🟒 (If no, explain in Remark	s.)		
Are Vegetation, Soil,	or Hydrology significantly di		Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	xplain any answers in Rema	rks.)		
Summary of Findings – A	ttach site map showing sampli	ng point locations, trans	sects, important feature	es, etc.		
Hydrophytic Vegetation Present?	Yes No <b>_✓</b> _					
Hydric Soil Present?	Yes No _ <b>_</b> _	Is the Sampled Area within	a Wetland?	Yes No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Sit				
			e ib.			
•	ocedures here or in a separate report		20			
Covertype is UPL. Area is upland,	, not all three wetland parameters ar	e present. Drought condition	15.			
HYDROLOGY						
HIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)	<u>.</u>	Secondary Indicators (minim	um of two required)		
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B	13)	Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)	(63)		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (	(C2)		
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aer	ial Imagen/(C0)		
Drift Deposits (B3)	Processes of Rodu	used Iron (CA)				
Algal Mat or Crust (B4)	Presence of Redu	ction in Tilled Soils (C6)	Stunted or Stressed Plan Geomorphic Position (D2			
Algai Mat of Crust (B4) Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)	.)		
Inundation Visible on Aerial Ir			Microtopographic Relief (	(D4)		
Sparsely Vegetated Concave S	· · ·	,	FAC-Neutral Test (D5)	ζ,		
Field Observations:						
Surface Water Present?	Yes No <u></u> Depth	(inches):				
Water Table Present?		· —	Wetland Hydrology Present?	Yes No <b>_</b> ✓		
Saturation Present?		(inches):				
	Tes No <u>-</u>	(11101103).				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	/ailable:			
Remarks:						

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S	Species That	1	(A)
. Acer saccharum	70	Yes	FACU	Are OBL, FACW, or FAC			
3.				Total Number of Domi Across All Strata:	nant Species	4	(B)
J				Percent of Dominant S Are OBL, FACW, or FAC		25	(A/B)
5				Prevalence Index work			
j				Total % Cover		Multiply	Bv:
7				- OBL species	0	x 1 =	- <b></b> 0
	70	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	15	x3=	45
	0			FACU species	128	x 4 =	512
2				UPL species	0	x 5 =	0
3.				Column Totals	143	-	557 (B)
i.				-		(A) _	337 (b)
					ndex = B/A =	3.9	<del></del> ;
i				Hydrophytic Vegetation			
7.				1- Rapid Test for I		egetation/	
· -		= Total Cove	r	2 - Dominance Te	st is > 50%		
Herb Stratum (Plot size:5 ft)			.1	3 - Prevalence Inc	$lex is \le 3.0^{1}$		
. Podophyllum peltatum	30	Yes	FACU	4 - Morphological			supporting
	28	Yes	FACU	data in Remarks or on			
2. Alliaria petiolata				Problematic Hydr	ophytic Vege	tation¹ (Ex	plain)
3. Deparia acrostichoides	15	Yes	FAC	Indicators of hydric so		-	gy must be
4				present, unless disturb	ed or proble	matic	
5				Definitions of Vegetation	on Strata:		
5.				Tree – Woody plants 3	in. (7.6 cm) oı	more in o	diameter a
7				breast height (DBH), re	gardless of h	eight.	
3				Sapling/shrub - Woody	/ plants less t	han 3 in. [	BH and
Э.				greater than or equal t			
10				Herb – All herbaceous			gardless of
11.				size, and woody plants			
2.				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
		= Total Cove	r	height.			
Noody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	n Present? \	/es N	lo <u> <b>√</b></u>
l.	0						
2.				-			
				-			
o				-			
4		Takal Carre		-			
	0	_= Total Cove	er				

Depth Matrix Redox Features    Color (moist)   Matrix   Type¹   Loc²   Texture	atic Hydric Soils³: RR K, L, MLRA 149B)
1Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox District Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LFC) Thin Dark	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Block Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Indicators for Problema 2 cm Muck (A10) (LR Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LF Polyvalue Below Sur Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Block Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Indicators for Problema 2 cm Muck (A10) (LR Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LF Polyvalue Below Sur Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Block Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Indicators for Problema 2 cm Muck (A10) (LR Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LF Polyvalue Below Sur Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Devolution Indicators for Problema 2 cm Muck (A10) (LR R, MLRA 149B) Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LFR K, L) Dark Surface (F6) Thin Dark Surface (S7) (LFR K, L) Thin Dark Surface (S7) Depleted Dark Surface (F6) Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Block Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Indicators for Problema 2 cm Muck (A10) (LR Coast Prairie Redox 5 cm Mucky Peat or Dark Surface (S7) (LF Polyvalue Below Sur Thin Dark Surface (S7)	atic Hydric Soils³: RR K, L, MLRA 149B)
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LR Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LF Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Sur Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7)	RR K, L, MLRA 149B)
Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Thick Dark Surface (A12)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Coast Prairie Redox  5 cm Mucky Peat or  Dark Surface (S7) (LF  Polyvalue Below Sur  Thin Dark Surface (S7)  Iron-Manganese Ma	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LF Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Sur Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7)	
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)	(A16) <b>(LRR K, L, R)</b>
Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Sur July Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Ma	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Ma	
INICK DARK SURface (A12) Depieted Dark Surface (F7) Iron-Manganese Ma	
Sandy Mucky Mineral (S1)  Pedoy Depressions (E9)  — If of Mangariese Ma	
Piedmont Floodplair	n Soils (F19) <b>(MLRA 149B)</b>
Sandy Gleyed Matrix (S4)  Mesic Spodic (TA6) (I	
Sandy Redox (S5)  Red Parent Material	
Stripped Matrix (S6) Very Shallow Dark S	urface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Re	marks)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type: Hard pan/coarse fragments Hydric Soil Present? Yes No,	∠
Depth (inches): 10	
Remarks:	
Refusal due to coarse fragments. The criterion for hydric soil is not met.	



Photo of Sample Plot North



Photo of Sample Plot West



Project/Site: Garnet Energy Cente	er <b>City/County:</b> Ca	ato, Cayuga	Sai	mpling Date: 2020	)-June-18	
Applicant/Owner: NextEra		State: NY	Samı	pling Point: W-BTF	-15_PFO-1	
Investigator(s): Brenner Fahren:	z, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none): Con	cave	Slope (%): 0 to 1	
Subregion (LRR or MLRA): LR	R R	Lat: 43.136135530	8 <b>Long:</b> -76.6	6546189704 <b>I</b>	Datum: WGS84	
Soil Map Unit Name: Collamer s	silt loam, 0 to 2 percent slopes			NWI classification:	PFO	
Are climatic/hydrologic conditions			(If no, expl	ain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly	disturbed? Are "Norma	al Circumstance	s" present? Ye	es No <b></b> _	
Are Vegetation, Soil,	or Hydrology naturally pro	oblematic? (If needed,	explain any ans	swers in Remarks.)		
SUMMARY OF FINDINGS – At	tach site map showing samp	ling point locations, trar	nsects, impor	tant features, et	i <b>c.</b>	
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes _	∠_ No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si		W-BTI		
- , ,,			ite ib.		1-15	
· ·	cedures here or in a separate repo					
Covertype is PFO. Area is wetland	, all three wetland parameters are	present. Drought conditions	•			
HYDROLOGY						
Wetland Hydrology Indicators:		_				
Primary Indicators (minimum of c	one is required; check all that apply	γ <u>)</u>	-	icators (minimum o	of two required)	
Surface Water (A1)	<u></u> Water-Stained L		Surface Soi			
High Water Table (A2)	Aquatic Fauna (		Drainage Pa			
Saturation (A3)	Marl Deposits (I		Moss Trim Lines (B16)			
✓ Water Marks (B1)	Hydrogen Sulfic		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
✓ Sediment Deposits (B2)	Oxidized Rnizos	spheres on Living Roots (C3)		Visible on Aerial Im	agery (C9)	
Drift Deposits (B3)	Presence of Rec	duced Iron (C4)		Stressed Plants (D1		
Algal Mat or Crust (B4)		fuction in Tilled Soils (C6)		ic Position (D2)	,	
Iron Deposits (B5)	Thin Muck Surfa		Shallow Aq			
✓ Inundation Visible on Aerial Im				graphic Relief (D4)		
✓ Sparsely Vegetated Concave S	urface (B8)		✓ FAC-Neutra	al Test (D5)		
Field Observations:						
Surface Water Present?	Yes No 🟒 Dept	:h (inches):				
Water Table Present?	Yes No <u></u> ✓ Dept	:h (inches):	Wetland Hydro	ology Present?	Yes _ <b>_</b> No	
Saturation Present?		:h (inches):	1	-		
(includes capillary fringe)			-			
	gauge, monitoring well, aerial pho	tos provious inspections) if	l wailablo:			
Describe Recorded Data (stream)	gauge, monitoring well, aeriai pho	tos, previous irispections), ir a	avaliable.			
Remarks:						
The criterion for wetland hydrolog	gy is met.					
İ						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksheet:		
ince statem (Flore size	% Cover	Species?	Status	Number of Dominant Species That	2	(A)
1. Fraxinus pennsylvanica	75	Yes	FACW	Are OBL, FACW, or FAC:		
2.				Total Number of Dominant Species	2	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.		<del></del>		Total % Cover of:	Multiply E	<u>By:</u>
/·		= Total Cove		OBL species 0	x 1 =	0
Continue (Charles Charles (District) 45 ft		_ TOTAL COVE	=1	FACW species 95	x 2 =	190
Sapling/Shrub Stratum (Plot size: 15 ft )	20		E4 6147	FAC species 0	x 3 =	0
1. Fraxinus pennsylvanica		Yes	FACW	FACU species 0	x 4 =	0
2				- UPL species 0	x 5 =	0
3				- Column Totals 95	(A)	190 (B)
4				Prevalence Index = B/A =		,
5						
6				Hydrophytic Vegetation Indicators:	/t-t	
7.				1- Rapid Test for Hydrophytic	regetation	
	20	= Total Cove	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		_		3 - Prevalence Index is ≤ 3.0¹		_
1	0			✓ 4 - Morphological Adaptations		supporting
2.				data in Remarks or on a separate sl		
3.				Problematic Hydrophytic Vege		
4.				¹Indicators of hydric soil and wetlar	-	y must be
5.				present, unless disturbed or proble	matic	
				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o		iameter at
7.				breast height (DBH), regardless of h	_	<b>D</b> 1
8				Sapling/shrub – Woody plants less t		BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		ardiess of
11				size, and woody plants less than 3.2		00 ft i.e.
12				Woody vines – All woody vines grea	ter than 3.2	28 IL III
	0	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	Yes 🔽 N	0
1.	0					
2.				-		
3.						
4.				-		
···		= Total Cove	ar .	-		
		- 10001 COV	-1			
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

	cription: (Describe	to the	=			indicator	or confirm the al	bsence of i	ndicators.)
Depth	Matrix			Feati			<b>-</b> .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 8	10YR 3/3	90	10YR 4/6	10	C	<u>M</u>	Silt Loam		
8 - 16	10YR 5/1	80	10YR 5/8	20	C	M	Clay Loar		
16 - 20	10YR 6/3	60	10YR 5/6	40	C	M	Sandy Cla	ay	
		- —							
									-
									-
	-								
¹Type: C =	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL	= Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicator	s for Problematic Hydric Soils³:
Histoso			Polyvalue B	elow S	urface (S	88) <b>(LRR F</b>	, MLRA 149B)	2 cm	Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic E	pipedon (A2)		Thin Dark S						Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Loamy Muc	-		(LRR K, L	)		Mucky Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		Loamy Gley						Surface (S7) (LRR K, L)
	ed Layers (A5)		Depleted M					Polyv	alue Below Surface (S8) (LRR K, L)
	ed Below Dark Surfa Park Surface (A12)	ace (A1	1) Redox Dark Depleted Da			`		Thin [	Dark Surface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depr		-	)		Iron-N	Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depi	C33101	15 (1-0)			Piedn	nont Floodplain Soils (F19) (MLRA 149B)
_	Redox (S5)							Mesic	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	ed Matrix (S6)								arent Material (F21)
	urface (S7) <b>(LRR R, N</b>	AI DA 1	/OR)						Shallow Dark Surface (TF12)
Daik 30	urrace (37) (LKK K, N	/ILIVA I	490)					Other	(Explain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hyd	Irolog	y must b	e presen	t, unless disturbe	d or proble	ematic.
Restrictive	Layer (if observed):								
	Type:		None			Hydric !	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
i									
1									
l									
İ									

Hydrology Photos





Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet Energy Cente	er <b>City/County:</b> Cato,	, Cayuga		Sampling Date: 202	20-June-18	
Applicant/Owner: NextEra		State: NY		Sampling Point: W-BT	F-15_UPL-1	
Investigator(s): Brenner Fahren:	z, Ryan Snow	Section, Township, F	Range:			
Landform (hillslope, terrace, etc.):	Hillslope	 Local relief (concave, conve	ex, none):	Convex	Slope (%): 2 to 5	
Subregion (LRR or MLRA): LR	RR	Lat: 43.1359553328	Long:	-76.6511840601	Datum: WGS84	
Soil Map Unit Name: Riga and L	airdsville silt loams, 2 to 6 percent slo	opes		NWI classification	n: None	
Are climatic/hydrologic conditions	on the site typical for this time of year	ar? Yes No _	<u> </u>	explain in Remarks.)		
Are Vegetation <u></u> ✓, Soil <u>✓</u> ,	or Hydrology significantly dis	turbed? Are "Norma	l Circumst	tances" present?	Yes No _ <b>_</b> /	
Are Vegetation, Soil,	or Hydrology naturally proble	ematic? (If needed, e	explain an	y answers in Remarks.	)	
SUMMARY OF FINDINGS - At	tach site map showing samplin	ng point locations, tran	sects, im	nportant features, e	etc.	
Hydrophytic Vegetation Present?		<u>                                     </u>		•		
	Yes No	Is the Compled Area within	n a Watlan	ad? Vac	. No (	
Hydric Soil Present?	Yes No	Is the Sampled Area within		iu? Tes	s No <u>_</u>	
Wetland Hydrology Present?	Yes No _ <b>_</b> ∠	If yes, optional Wetland Si	te ID:			
	cedures here or in a separate report) not all three wetland parameters are		e not norr	mal due to agricultural	activities. Drought	
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of c	one is required; check all that apply)			y Indicators (minimum	of two required)	
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B13		Drainage Patterns (B10)			
Saturation (A3) Water Marks (B1)	Marl Deposits (B15 Hydrogen Sulfide (		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Sediment Deposits (B2)	, ,	eres on Living Roots (C3)	6 6 1 5 (60)			
Sediment Deposits (B2)	Oxidized 1411205p11	eres on ziving Roots (es)	Satura	ition Visible on Aerial I	magery (C9)	
Drift Deposits (B3)	Presence of Reduc	ed Iron (C4)	Stunte	ed or Stressed Plants ([	01)	
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)		orphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface			w Aquitard (D3)		
Inundation Visible on Aerial In	· · · · · · · · · · · · · · · · · · ·	lemarks)		copographic Relief (D4)	)	
Sparsely Vegetated Concave S Field Observations:	urrace (bo)		FAC-N	eutral Test (D5)		
Surface Water Present?	Vos No / Depth (	inches):				
	Yes No <u>✓</u> Depth (i					
Water Table Present?	Yes No Depth (i	·	wetiand F	Hydrology Present?	Yes No	
Saturation Present?	Yes No Depth (i	inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	, previous inspections), if a	vailable:			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Species That		
1. Populus deltoides	15	Yes	FAC	Are OBL, FACW, or FAC:	2	(A)
2.		162	FAC	Total Number of Dominant Species		
3.				Across All Strata:	´ 3	(B)
·		<del></del> -		Percent of Dominant Species That		(A (D)
4				Are OBL, FACW, or FAC:	66.7	(A/B)
5.				Prevalence Index worksheet:		
6.				<u>Total % Cover of:</u>	Multiply I	<u>Ву:</u>
7				OBL species 0	x 1 =	0
	15	_= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 20	x 3 =	60
1. Rhamnus cathartica	5	Yes	FAC	FACU species 25	x 4 =	100
2				- UPL species 0	x 5 =	0
3				Column Totals 45	(A)	160 (B)
4.				Prevalence Index = B/A =	- ' ' -	(=)
5						<del></del>
6				Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic		
7					vegetation	
	5	= Total Cov	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		_		3 - Prevalence Index is ≤ 3.0¹	al (Duas siala s	
1. Poa pratensis	25	Yes	FACU	4 - Morphological Adaptation - data in Remarks or on a separate s		supporting
2.				-   Problematic Hydrophytic Veg		nlain)
3.				Indicators of hydric soil and wetla		
4.				present, unless disturbed or proble	, .	gy must be
5.				Definitions of Vegetation Strata:	inauc	
6.				Tree – Woody plants 3 in. (7.6 cm) (	or more in c	liamotor at
7.				breast height (DBH), regardless of		nameter at
8.				Sapling/shrub – Woody plants less	_	BH and
9.				greater than or equal to 3.28 ft (1 r		.brrana
10.				Herb – All herbaceous (non-woody		ardless of
				size, and woody plants less than 3.		,
11				Woody vines – All woody vines grea		28 ft in
12		Takal Car		height.		
	25	_= Total Cov	er	Hydrophytic Vegetation Present?	Yes ./ N	0
Woody Vine Stratum (Plot size: 30 ft )				.,,,		
1	0			-		
2.				-		
3				-		
4				-		
	0	_= Total Cov	er			
Remarks: (Include photo numbers here or on a separ	ate sheet.)			_		
Active agricultural field.						

	cription: (Describe	to the de				indicato	r or confirm the	absence of	indicators.)
Depth	Matrix		Redox						
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textur		Remarks
0 - 15	10YR 3/4	100		_			Silt Loa	am	
				_					
				_					
				_					
				_			-		
				_					
				_					
		- —		_					
				_			-		
¹Type: C = C	Concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains.		= Pore Lining, M = Matrix.
Hydric Soil								Indicator	rs for Problematic Hydric Soils³:
Histoso	` '		Polyvalue Bel					2 cm	Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sui						t Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K,	L)		Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye						Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Mat						value Below Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A11							Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar			)			Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				mont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)								c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy F	Redox (S5)								Parent Material (F21)
Stripped	d Matrix (S6)								Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	/ILRA 149	9B)					-	r (Explain in Remarks)
	of hydrophytic veg		and wetland hydr	olog	y must b	e preser	nt, unless disturi	bed or probl	ematic.
Restrictive	Layer (if observed)	:							
	Type:	Ha	ard pan layer			Hydric	Soil Present?		Yes No⁄_
	Depth (inches):		15						
Remarks:									
Cailaianifia			-£ +:11:						
Soli Signific	antly disturbed as	a result (	or uning.						



Photo of Sample Plot North



Photo of Sample Plot West



Project/Site: Garnet Energy Center	er City/County: Cat	to, Cayuga		Sampling Date: 2	2020-June-19
Applicant/Owner: NextEra		State: NY		Sampling Point: W-	BTF-16_PFO-1
Investigator(s): Brenner Fahren	z, Ryan Snow	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA): LR	RR R	Lat: 43.147359083	Long:	-76.638035547	Datum: WGS84
Soil Map Unit Name: Ontario lo	am, 8 to 15 percent slopes			NWI classificat	ion: PFO
Are climatic/hydrologic conditions	on the site typical for this time of y	vear? Yes No	_ <b>∠</b> (If no,	explain in Remarks	)
Are Vegetation, Soil,	or Hydrology significantly d	disturbed? Are "Norm	al Circumsta	ances" present?	Yes _ <b>✓</b> No
Are Vegetation, Soil,	or Hydrology naturally prob	blematic? (If needed,	explain any	answers in Remar	ks.)
SUMMARY OF FINDINGS - A	ttach site map showing sampl	ling point locations, trar	nsects, im	portant features	s, etc.
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No	1			
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area withi	in a Watland	-12 V	es/_ No
_					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	<u>W</u>	/-BTF-16
Remarks: (Explain alternative pro	cedures here or in a separate repor	rt)			
Covertype is PFO. Area is wetland	l, all three wetland parameters are p	present. Drought conditions	5.		
HYDROLOGY					
Wetland Hydrology Indicators:					
	one is required; check all that apply	١	Secondary	Indicators (minimu	ım of two required)
•	•	_	•		iiii oi two required)
Surface Water (A1)	<u></u> Water-Stained Le	·	· <del></del>	e Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B10) Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B		Moss Trim Lines (B16)		
✓ Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)		
Sediment Deposits (B2)	<u>✓</u> Oxidized Rhizosp	oheres on Living Roots (C3)	-	tion Visible on Aeria	l Imagery (C9)
Drift Deposits (B3)	Processes of Rod	used Iron (CA)		d or Stressed Plants	
Algal Mat or Crust (B4)	Presence of Redu	uction in Tilled Soils (C6)		orphic Position (D2)	(01)
Iron Deposits (B5)	Thin Muck Surface			v Aquitard (D3)	
Inundation Visible on Aerial Ir				opographic Relief ([	14)
✓ Sparsely Vegetated Concave S		i Kemarks)		eutral Test (D5)	<del>/</del> /
Field Observations:	diface (DO)		- IAC-NO	atrai rest (D3)	
Surface Water Present?	Yes No <u></u> Depth	n (inches):			
		· ·	-		V A N-
Water Table Present?	·	n (inches):	- wetland H	lydrology Present?	Yes No
Saturation Present?	Yes No Depth	n (inches):	_		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:		
<u> </u>					
Remarks: The criterion for wetland hydrolo	gy is met.				
	gy is met.				
	gy is met.				
	gy is met.				
	gy is met.				
	gy is met.				

<u>rree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet:  Number of Dominant Species That  7 (A)
. Acer saccharinum	55	Yes	FACW	Are OBL, FACW, or FAC:
. Fraxinus pennsylvanica	20	Yes	FACW	Total Number of Dominant Species 7 (B)
. Acer rubrum	10	No	FAC	Across All Strata:
. Ulmus americana	5	No	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:  (Au
5				Prevalence Index worksheet:
·				Total % Cover of: Multiply By:
·				OBL species 10 x 1 = 10
	90	= Total Cov	er	FACW species 118 x 2 = 236
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species $\frac{110}{100}$ $\times$ 3 = 30
. Cornus amomum	28	Yes	FACW	FACU species $0 \times 4 = 0$
•				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
•				
				Prevalence Index = B/A =2
				Hydrophytic Vegetation Indicators:
				1- Rapid Test for Hydrophytic Vegetation
	28	= Total Cov	er	2 - Dominance Test is >50%
lerb Stratum (Plot size:5 ft)		-		$_{\checkmark}$ 3 - Prevalence Index is ≤ 3.01
. Carex scoparia	5	Yes	FACW	4 - Morphological Adaptations¹ (Provide suppor
. Carex lupulina	5	Yes	OBL	data in Remarks or on a separate sheet)
. Impatiens capensis	5	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
. Juncus effusus	5	Yes	OBL	Indicators of hydric soil and wetland hydrology must
i. junicus eriusus		103	OBL	present, unless disturbed or problematic
5.				Definitions of Vegetation Strata:
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and
3.				greater than or equal to 3.28 ft (1 m) tall.
0				Herb – All herbaceous (non-woody) plants, regardless
<del>`</del>				size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2	- ——			height.
	20	_= Total Cov	er	Hydrophytic Vegetation Present? Yes ✓ No
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Trydrophydd Vegetation i'r esent.
·				
3				
	0	= Total Cov	er	

Depth	-		-			indicator o	or confirm the ab	sence of indicators.)
(:l)	Matrix			x Fea		12	T	De service
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Texture	Remarks
0-6	10YR 4/4	80	10YR 3/6	20	C	M/PL _	Silt Loam	<del></del>
6 - 14	10YR 7/2	60	7.5YR 3/4	40		PL	Silt Loam	<del></del>
				-				<del></del>
		—						
		- —		- —				
		- —		- —				
		- —		- —				
		- —		- —				
		- —		- —				
1Typo: C =	Concentration D =	Donlo	tion DM - Poduce		triv MC -	- Mackad S	and Crains 21 o	cation: PL - Poro Lining M - Matrix
	Concentration, D =	Deple	tion, Rivi – Reduct	eu ivia	LI IX, IVIS -	- Maskeu S	and Grains. *LC	cation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
-	Indicators:		Dobasaluo F	Polove	Curfoco (	CO) (I DD D	MI DA 140D)	·
Histoso	pipedon (A2)		Polyvalue E				MLRA 149B) 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	listic (A3)		Loamy Mu				1430)	Coast Prairie Redox (A16) (LRR K, L, R)
	gen Sulfide (A4)		Loamy Gle	-				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratific	ed Layers (A5)		_ <b>∠</b> Depleted N	1atrix	(F3)			Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	ed Below Dark Surf	ace (A´						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted D			7)		Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Dep	ressio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
_	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_	Redox (S5)							Red Parent Material (F21)
	ed Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark S	urface (S7) (LRR R, I	VILRA 1	49B)					Other (Explain in Remarks)
3Indicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must l	oe present,	unless disturbed	d or problematic.
Restrictive	Layer (if observed)	:						
	Type:		lard pan layer	_		Hydric So	il Present?	Yes No
	Depth (inches):		14					

**Hydrology Photos** 





Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet Energy Cente	er City/County: Cate	o, Cayuga	Sampling Date:	2020-June-19	
Applicant/Owner: NextEra		State: NY	Sampling Point: \	W-BTF-16_UPL-1	
Investigator(s): Brenner Fahren:	z, Ryan Snow	Section, Township, R	tange:		
Landform (hillslope, terrace, etc.):	Hillslope	Local relief (concave, conve	x, none): Convex	Slope (%): 2 to 5	
Subregion (LRR or MLRA): LR	RR R	Lat: 43.1472211311	Long: -76.6379523234	Datum: WGS84	
Soil Map Unit Name: Ontario lo	am, 8 to 15 percent slopes		NWI classific	ation: None	
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No _	🗸 (If no, explain in Remark	ks.)	
Are Vegetation, Soil,	or Hydrology significantly di		Circumstances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	xplain any answers in Rema	arks.)	
Summary of Findings – At	ttach site map showing sampli	ng point locations, trans	sects, important featur	es, etc.	
Hydrophytic Vegetation Present?	Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area within	a Wetland?	Yes No/_	
Wetland Hydrology Present?	Yes No <b></b> _	If yes, optional Wetland Site			
			e iD.		
	cedures here or in a separate report				
Covertype is UPL. Area is upland,	not all three wetland parameters ar	e present. Drought condition	ns.		
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of c	one is required; check all that apply)	9	Secondary Indicators (minin	num of two required)	
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B1	5) -	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table	(C2)	
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8)		
		-	Saturation Visible on Ae		
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plar		
Algal Mat or Crust (B4)	<del></del>	ction in Tilled Soils (C6)	Geomorphic Position (D	2)	
Iron Deposits (B5) Inundation Visible on Aerial In	Thin Muck Surfac		Shallow Aquitard (D3)	(D4)	
Inundation visible on Aeriai in Sparsely Vegetated Concave S	· · · · · · · · · · · · · · · · · · ·	Kemarks) _	Microtopographic Relief	(D4)	
Field Observations:	diface (B8)	<u>_</u>	FAC-Neutral Test (D5)		
	Voc. No. / Donth	(inches)			
Surface Water Present?		(inches):			
Water Table Present?		(inches):	Wetland Hydrology Present	? Yes No	
Saturation Present?	Yes No/ Depth	(inches):			
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:		
Remarks:					

<u>ree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test workshee Number of Dominant Spec		2	(A)
. Acer saccharum	65	Yes	FACU	Are OBL, FACW, or FAC:			(A)
2. Tilia americana 3.	25	Yes	FACU	Total Number of Dominan Across All Strata:	t Species	6	(B)
l				Percent of Dominant Spec Are OBL, FACW, or FAC:	ies That	33.3	(A/B)
5.				Prevalence Index workshe	et:		
j				Total % Cover of:		Multiply E	Sv:
<sup>'</sup>				- OBL species	0	x 1 =	0
	90	_= Total Cov	er	FACW species	20	x 2 =	40
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	10	x 3 =	30
. Tilia americana	10	Yes	FACU	FACU species	110	x 4 =	440
. Rhamnus cathartica	10	Yes	FAC	UPL species	0	x 5 =	0
3.				Column Totals	140	(A)	510 (B)
l.						_	310 (b)
				Prevalence Index			
j				Hydrophytic Vegetation In			
7.				1- Rapid Test for Hyd		egetation	
· -	20	= Total Cov	er	2 - Dominance Test is			
Herb Stratum (Plot size:5 ft)		-	Ci	3 - Prevalence Index	is ≤ 3.0¹		
. Fraxinus pennsylvanica	20	Yes	FACW	4 - Morphological Ad	-		upporting
2. Rosa multiflora	10	Yes	FACU	data in Remarks or on a se			
		res	FACU	Problematic Hydroph	-		
·				Indicators of hydric soil a	nd wetlan	d hydrolog	y must be
4				present, unless disturbed	or probler	natic	
5				Definitions of Vegetation S	trata:		
5				Tree – Woody plants 3 in. (	7.6 cm) or	more in d	iameter a
7				breast height (DBH), regar	dless of h	eight.	
3				Sapling/shrub – Woody pla	ants less tl	nan 3 in. Di	BH and
Э.				greater than or equal to 3.	28 ft (1 m	) tall.	
0.				Herb – All herbaceous (no			ardless of
11.				size, and woody plants les			
2.				<b>Woody vines</b> – All woody v	ines great	er than 3.2	28 ft in
-	30	= Total Cov	er	height.			
Noody Vine Stratum (Plot size:30 ft)		-	·.	Hydrophytic Vegetation P	resent? \	es No	
l.	0						
-				=			
2							
3.				=			
4							
	0	= Total Cov	er				

Profile Des	cription: (Describe t	to the de	epth needed to d Redox			indicato	r or confirm the a	bsence of ir	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 16	7.5YR 4/3	100	Color (moist)	- ~	<u>.,,pc</u>		Silt Loam		Nemarks
				_					
				_					
				_					
				- —					
				_					
				_					
				_					
	Concentration, D =	Depletic	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L		= Pore Lining, M = Matrix.
Hydric Soil						==		Indicators	s for Problematic Hydric Soils <sup>3</sup> :
Histoso	i (A1) Dipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B) A 149R)		Muck (A10) (LRR K, L, MLRA 149B)
	stic (A3)		Loamy Muck						Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)				Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma						alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ice (A11	· <del></del>			`		-	Park Surface (S9) <b>(LRR K, L)</b>
	ark Surface (A12) Jucky Mineral (S1)		Depleted Dai			)		Iron-M	langanese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depre	33101	13 (1 0)				ont Floodplain Soils (F19) (MLRA 149B)
-	tedox (S5)								Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)								arent Material (F21)
	rface (S7) (LRR R, M	ILRA 149	9B)					-	hallow Dark Surface (TF12) (Explain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hydi	rolog	y must b	e preser	nt, unless disturbe		•
Restrictive	Layer (if observed):								
	Type:	Coa	arse rock layer	_		Hydric	Soil Present?	Y	⁄es No <b>⁄</b> _
	Depth (inches):	_,	16						
Remarks:									
Refusal due	to coarse fragmer	nts.							



Photo of Sample Plot North



Photo of Sample Plot West



Project/Site: Garnet Energy Center	er City/County: Cate	o, Cayuga	S	ampling Date: 2020	)-June-19
Applicant/Owner: NextEra		State: NY	San	npling Point: W-BTF	-17_PEM-1
Investigator(s): Brenner Fahren	nz, Ryan Snow	Section, Township,	Range:	•	
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none): Co	ncave	Slope (%): 1 to 3
Subregion (LRR or MLRA):	RR R	Lat: 43.145091850	9 <b>Long:</b> -76	5.630086885	Datum: WGS84
Soil Map Unit Name: Hilton loa	am, 3 to 8 percent slopes			NWI classification:	PEM
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	_✓ (If no, exp	olain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumstanc	ces" present? Y	es No _ <b>_</b> /
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any ar	nswers in Remarks.)	
SUMMARY OF FINDINGS - A	ttach site map showing sampli	ng point locations, trar	sects, impo	rtant features, et	tc.
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes	∠_ No
_		i			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te iD:	W-BT	F-1/
	ocedures here or in a separate report				
7.1	d, all three wetland parameters are p		not normal du	ue to agricultural act	ivities.
Ditches/drain tiles observed. ATV	//ORV impacts observed. Drought cor	nditions.			
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Inc	dicators (minimum o	of two required)
Surface Water (A1)	⁄ Water-Stained Le	aves (B9)	Surface So	oil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B		Drainage	Patterns (B10)	
Saturation (A3)	Marl Deposits (B1	5)		n Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	<u></u> ✓ Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu			r Stressed Plants (D´	1)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		hic Position (D2)	
Iron Deposits (B5)	Thin Muck Surfac		✓ Shallow A	•	
Inundation Visible on Aerial Ir		Remarks)		ographic Relief (D4)	
Sparsely Vegetated Concave S Field Observations:	Juliace (Do)		_ <u>✓</u> FAC-Neutr	rai lest (D3)	
Surface Water Present?	Vos No ( Donth	(inches):			
		(inches):			.,
Water Table Present?		(inches):	Wetland Hydi	rology Present?	Yes No
Saturation Present?	Yes No Depth	(inches):			
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:		
Remarks:					

<u>'</u>				T		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
1	0			Total Number of Dominant Species		
2				- Across All Strata:	4	(B)
3				Percent of Dominant Species That		
4				- Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	Bv:
7				OBL species 75	x 1 =	75
	0	= Total Cove	er	FACW species 25	x 2 =	50
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 25	x3=	75
1. Salix nigra	20	Yes	OBL	FACU species 0	x 4 =	0
2. Populus deltoides	5	Yes	FAC	UPL species 0	_	0
3.					x 5 = _	
4.				- Column Totals 125	(A) _	200 (B)
5.				Prevalence Index = B/A =	1.6	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	
··	25	= Total Cove	ar .	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)			.1	$\checkmark$ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
1. Scirpus atrovirens	30	Yes	OBL	4 - Morphological Adaptation:		supporting
2. Lythrum salicaria	25	Yes	OBL	data in Remarks or on a separate s		
Lyurium sancaria     Eupatorium perfoliatum				- Problematic Hydrophytic Veg	-	
	15	No No	FACW	Indicators of hydric soil and wetla	,	gy must be
4. Equisetum arvense	15	No	FAC	present, unless disturbed or proble	ematic	
5. Solidago gigantea	10	No	FACW	Definitions of Vegetation Strata:		
6. Eutrochium purpureum	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) (		liameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1 r		
10				Herb – All herbaceous (non-woody		gardless of
11				size, and woody plants less than 3.		20 ft in
12				Woody vines – All woody vines greatheight.	ater than 5.	20 11 111
	100	= Total Cove	er			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	Yes N	0
1	0					
2						
3.						
4.						
	0	= Total Cove	er	-		
Demonstrat (In alcode wheels would are been as as a consumb		_				
Remarks: (Include photo numbers here or on a separat	e sneet.)					
Fallow field.						

Depth (inches) 0 - 4	Matrix		Redo	x Fea		indicator o	or confirm the al	bsence of indicators.)
0 - 4	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	10YR 3/1	90	10YR 4/6	10	C	M/PL	Loam	
4 - 12	10YR 3/1	85	10YR 5/6	15		M/PL	Loam	
12 - 16	10YR 4/2	75	10YR 5/6	25			Clay Loar	n
	-		-	_			,	
	-		-	_				
	-							
	-		-	_				
Type: C =	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	trix, MS	= Masked S	and Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue F	Below	Surface (	(S8) <b>(LRR R,</b>	MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark S	Surfac	e (S9) <b>(LR</b>	R R, MLRA	149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mud					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)
	ed Layers (A5)	Faco (A:	Depleted M					Polyvalue Below Surface (S8) (LRR K, L)
	ed Below Dark Surf ark Surface (A12)	ace (A	Depleted D			7)		Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Dep			, ,		Iron-Manganese Masses (F12) (LRR K, L, R)
-	Gleyed Matrix (S4)			. 055.0	(. 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent Material (F21)
	urface (S7) (LRR R, I	MLRA 1	<b>49B)</b>					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic veg Layer (if observed)		n and wetland hy	drolo	gy must I	be present, T	unless disturbe	d or problematic.
esu icuve	=	).	Bedrock			Hydric So	il Present?	Yes _✓_ No
	Type:		16	-		nyunc 30	ii Fresent:	Tes NO
Remarks:	Depth (inches):		10					·
A positive i	ndication of hydrio	soil w	as observed.					

Vegetation Photos





Photo of Sample Plot North



Photo of Sample Plot East



Project/Site: Garnet Energy Cent	er City/County: Cato		20-June-19		
Applicant/Owner: NextEra		State: NY	State: NY Sampling Point: W-B7		
Investigator(s): Brenner Fahrer	nz, Ryan Snow	Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Swamp	Local relief (concave, conve	ex, none):_	Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA): LI	RR R	Lat: 43.1474538156	6 Long:	-76.6343994139	Datum: WGS84
Soil Map Unit Name: Muck, sh	allow			NWI classificatio	n: PFO
Are climatic/hydrologic condition:	s on the site typical for this time of ye	ear? Yes No	_ <b>√</b> (If no,	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain an	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, tran	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present?	? Yes _ 🗸 No				
Hydric Soil Present?	Yes/_ No	Is the Sampled Area within	n a Wetlan	d? Yes	No
		· ·			TF-17
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	ite iD:		IF-1/
	ocedures here or in a separate report				
Covertype is PFO. Area is wetland	d, all three wetland parameters are p	resent. Drought conditions.			
HYDROLOCY					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all that apply)		Secondary	y Indicators (minimum	of two required)
∕_ Surface Water (A1)	✓ Water-Stained Le	aves (B9)	Surface	e Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B´	13)	_ <b>∠</b> Draina	ige Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (B1	5)	Moss T	Trim Lines (B16)	
<u>✓</u> Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)		
<u>✓</u> Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	-	sh Burrows (C8)	
				tion Visible on Aerial I	
Drift Deposits (B3)	Presence of Redu			d or Stressed Plants ([	01)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surfac	• •		w Aquitard (D3)	
Inundation Visible on Aerial I	· · ·	Remarks)		opographic Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)		Z FAC-Ne	eutral Test (D5)	
Field Observations:					
Surface Water Present?	·	(inches): 1			
Water Table Present?	Yes No _ <b>_/</b> Depth	(inches):	Wetland F	Hydrology Present?	Yes No
Saturation Present?	Yes 🟒 No Depth	(inches): 0			
(includes capillary fringe)					
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:		
Dama andres					
Remarks:					

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	5	(A)
. Ulmus americana	30	Yes	FACW	Are OBL, FACW, or FAC:		
2. Acer rubrum	25	Yes	FAC	Total Number of Dominant Species	5	(B)
3. Betula alleghaniensis	20	Yes	FAC	Across All Strata:		
. Tsuga canadensis	10	No	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
5.				Prevalence Index worksheet:	-	
5.				Total % Cover of:	Multiply E	Bv:
·				OBL species 70	x 1 =	70
	85	= Total Cove	er	FACW species 30	x 2 =	60
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 65	x3=	195
. Carpinus caroliniana	20	Yes	FAC	FACU species 10	x 4 =	40
2				UPL species 0	x5=	0
3.						
					(A) _	365 (B)
i				Prevalence Index = B/A =	2.1	
				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	
·	20	= Total Cove	ar .	2 - Dominance Test is >50%		
lorb Stratum (Blat size) E ft )		_ TOTAL COVE	<b>-</b> 1	$\checkmark$ 3 - Prevalence Index is ≤ 3.01		
Herb Stratum (Plot size:5 ft)	70	Voc	OBL	<u>✓</u> 4 - Morphological Adaptations	s¹ (Provide s	supporting
. Symplocarpus foetidus	70	Yes	OBL	data in Remarks or on a separate s	heet)	
2				Problematic Hydrophytic Vege	etation¹ (Ex	olain)
3				Indicators of hydric soil and wetlar	nd hydrolog	y must be
l				present, unless disturbed or proble	ematic	
5				Definitions of Vegetation Strata:		
5.				Tree – Woody plants 3 in. (7.6 cm) c	r more in d	iameter a
7.	-			breast height (DBH), regardless of h		
3.				Sapling/shrub – Woody plants less	than 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 n	n) tall.	
				Herb – All herbaceous (non-woody)	plants, reg	ardless of
<del>'</del>				size, and woody plants less than 3.	28 ft tall.	
1				Woody vines – All woody vines grea	ter than 3.2	28 ft in
2	70	Tatal Carr		height.		
		= Total Cove	er	Hydrophytic Vegetation Present?	Yes ./ No	n
Noody Vine Stratum (Plot size:30 ft)				Trydrophydic Vegetation i Tesenti.	1031	
·				-		
).				_		
3.				.		
4.		= Total Cove				

(inches)	Matrix Color (moist)	%	Color (moist)	% Type¹	Loc²	Texture	Remarks
0 - 24	10YR 2/2	100	Color (moist)	<u> </u>		Muck	Kentuks
				_			
		· —— ·					_
					· —— —		
				_			
					. —— —		
1T C		. <u> </u>	- DM Dadward	NA stoice NAC	NA - alar al Casa	C 21 -	and an Discontinuo M. Makele
	Concentration, D =	vepietio	n, KIVI = Keduced	iviatrix, MS =	- iviaskėd Sand		cation: PL = Pore Lining, M = Matrix.
Hydric Soil Histoso			Polyvalue Bel	OW Surface (	SS) (I DD D LAI		Indicators for Problematic Hydric Soils <sup>3</sup> :
	r (AT) pipedon (A2)		Polyvalue Bei Thin Dark Sur	-			2 cm Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mucky			-,	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleyed	d Matrix (F2)			5 cm Mucky Peat of Peat (55) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Mat				Polyvalue Below Surface (S8) (LRR K, L)
	ed Below Dark Surfa	ace (A11)	<del></del>				Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12) Mucky Mineral (S1)		Depleted Dar Redox Depre	-	')		Iron-Manganese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)		Redox Depre	3310113 (1 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)
	Redox (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)						Red Parent Material (F21)
Dark Su	ırface (S7) <b>(LRR R, N</b>	1LRA 149	9B)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
21	-£						
	of hydrophytic veg Layer (if observed):		and welland nydr	ology must i	je present, un	ess disturbed	or problematic.
Kesu icuve	Type:		None		Hydric Soil F	Present?	Yes No
	Depth (inches):		TVOTIC		i iyane son i	reserre.	163 <u>v</u> No
Remarks:	Depart (irieries).						·
A positive i	ndication of hydric	soil was	observed.				



Photo of Sample Plot East



Photo of Sample Plot South



Project/Site: Garnet Energy Cent	gy Center City/County: Cato, Cayuga Sampling Date: 2020					
Applicant/Owner: NextEra		State: NY	Sam	pling Point: W-BTF-	17_UPL-1	
Investigator(s): Brenner Fahrer	ız, Ryan Snow	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Hillslope	Local relief (concave, conv	ex, none): Con	ivex	Slope (%): 5 to 10	
Subregion (LRR or MLRA): LF	RR R	Lat: 43.147510932	Long: -76.	634471524 <b>C</b>	Datum: WGS84	
Soil Map Unit Name: Muck, sha	wolle			NWI classification:	None	
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ar? Yes No	_✓ (If no, expl	lain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstance	es" present? Ye	es No	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any ans	swers in Remarks.)		
CLIMMADY OF FINIDINGS A	ttach cita man chowing campli	ng point locations tran	socts impor	tant foatures et	•	
Hydrophytic Vegetation Present?	ttach site map showing samplii		isects, impor	tant reatures, et	<b>.</b>	
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Voc	No. 7	
•		Is the Sampled Area within a Wetland? Yes No/				
Wetland Hydrology Present?	Yes No _ <b>_∠</b> ocedures here or in a separate report	If yes, optional Wetland S	ite ID:			
HYDROLOGY Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Ind	licators (minimum o	f two required)	
Surface Water (A1)	Water-Stained Lea	aves (B9)		il Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage P			
Saturation (A3)	Marl Deposits (B1		Moss Trim			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospr	neres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		ic Position (D2)	,	
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aq	juitard (D3)		
Inundation Visible on Aerial Ir	· · · · · · · · · · · · · · · · · · ·	Remarks)		graphic Relief (D4)		
Sparsely Vegetated Concave S	Surface (B8)		FAC-Neutra	al Test (D5)		
Field Observations:						
Surface Water Present?		(inches):	_			
Water Table Present?	Yes No Depth	(inches):	Wetland Hydro	ology Present?	Yes No <b>_∠</b>	
Saturation Present?	Yes No Depth	(inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo:	s, previous inspections), if a	available:			
Remarks:						

<u>ree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That	0	(A)
. Liriodendron tulipifera	40	Yes	FACU	Are OBL, FACW, or FAC:		(A)
. Tsuga canadensis	30	Yes	FACU	Total Number of Dominant Species	5	(B)
Prunus serotina	15	No	FACU	Across All Strata:		`
. Acer rubrum	10	No	FAC	Percent of Dominant Species That	0	(A/B)
. Betula alleghaniensis	10	No	FAC	Are OBL, FACW, or FAC:		
				Prevalence Index worksheet:	N.A. Jaim I	D
				Total % Cover of: OBL species 0	<u>Multiply</u>	-
	105	= Total Cov	er		x1=_	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )	-	_		FACW species 0  FAC species 20	x 2 =	0
. Hamamelis virginiana	15	Yes	FACU		x 3 =	60
. Tsuga canadensis	15	Yes	FACU	FACU species 125	x 4 =	500
				UPL species 0	x 5 =	0
				Column Totals 145	(A) _	560 (B)
				Prevalence Index = B/A =	3.9	<del></del>
•				Hydrophytic Vegetation Indicators:		
·				1- Rapid Test for Hydrophytic	Vegetation	Ì
	30	= Total Cov	er	2 - Dominance Test is > 50%		
lerb Stratum (Plot size:5 ft)		_ 10tal cov	Ci	$3$ - Prevalence Index is $\leq 3.0^{\circ}$		
. Nabalus albus	10	Yes	FACU	4 - Morphological Adaptations		supporting
·		103	17100	data in Remarks or on a separate s		
				Problematic Hydrophytic Vege		-
				¹Indicators of hydric soil and wetlar	•	gy must be
				present, unless disturbed or proble	matic	
i				Definitions of Vegetation Strata:		
j				Tree – Woody plants 3 in. (7.6 cm) o		diameter a
•				breast height (DBH), regardless of h		
·				Sapling/shrub – Woody plants less greater than or equal to 3.28 ft (1 n		JBH and
				Herb – All herbaceous (non-woody)		gardlace of
0	- ——			size, and woody plants less than 3.2		gai uless oi
1				Woody vines – All woody vines grea		28 ft in
2				height.	iter triair 5	.2010111
	10	_= Total Cov	er		Vos N	lo (
Voody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	res r	NO
·	0					
i						
l						
	0	= Total Cov	er			

Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: Straine Loam  Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   Type: L = Pore Lining, M = Matrix.   Type: L = Pore Lining, M = Matrix.   Type: L = Pore Lining, M = Matrix.   Type: C = Concentration, D = Depletion, RM = Natrix.   Type: L = Pore Lining, M = Matrix.    0 - 2 7.5YR 3/1	100	t)	Org matte	r Loam	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Tupe: Standsed Sand Grains.    Tupe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Tupe: Standsed Sandsed Sandsed Sandsed Sandsed Sand Grains.    Tupe: Standsed Sandsed Sandsed					
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.    Polyvaric Soil Indicators:	2-14 10YR 4/6			Fine Lo	nam
Aydric Soil Indicators:  Histosol (A1)					
Aydric Soil Indicators:  Histosol (A1)					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
ydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)  Stratified Layers (A5) Depleted Matrix (F3)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, L)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Mesic Spodic (TA6) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 149B)  Mesic Spodic (TF12)  Other (Explain in Remarks)  mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
Indicators for Problematic Hydric Soils*:  Histosol (A1)					
ydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)  Stratified Layers (A5) Depleted Matrix (F3)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, L)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Mesic Spodic (TA6) (MLRA 144B, 145, 149B)  Mesic Spodic (TA6) (MLRA 144B, 145, 149B)  Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present?  Indicators for Problematic Hydric Soils?:  Indicators for Problematic Hydric Soils?:    Dark MLRA 149B					
Histosol (A1)	ype: C = Concentration, [	D = Depletion, RM = Redu	ced Matrix, MS = Maske	ed Sand Grains. <sup>2</sup> Loca	ation: PL = Pore Lining, M = Matrix.
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) 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.  Estrictive Layer (if observed):  Type: Tree roots Hydrosoil Present? Yes No ✓	ydric Soil Indicators:			l	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)  Thick Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21) 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.  Estrictive Layer (if observed):  Type: Tree roots Hydrosent? Yes No ✓	_ ` '				2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)  Thick Dark Surface (A12) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149I)  Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5) Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149I)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Estrictive Layer (if observed):  Type: Tree roots Hydrosent? Yes No _✓				.RA 149B)	
		•	•	(, L)	5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R</b>
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)  Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R)  Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149I 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.  Type: Tree roots Hydric Soil Present? Yes No ✓	,				-
Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149I) Sandy Gleyed Matrix (S4) 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) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Tree roots Hydric Soil Present? Yes No ✓		•		_	Polyvalue Below Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Fron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149I Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				_	Thin Dark Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4)	<del></del>	•		<del>-</del>	Iron-Manganese Masses (F12) (LRR K, L,
Sandy Redox (S5)			pr c33i0ri3 (1 0)		•
Stripped Matrix (S6) Ked Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) lndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.    All the problematic is a strictly contained by the present is a strictly contained by the pres		17)			
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: Tree roots Hydric Soil Present? Yes No /	-				
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Lestrictive Layer (if observed):  Type: Tree roots Hydric Soil Present? Yes No /		R MIRA 149R)			
Restrictive Layer (if observed):  Type: Tree roots Hydric Soil Present? Yes No/_		.,,		-	Other (Explain in Remarks)
Type: Tree roots Hydric Soil Present? Yes No 🗸		_	ydrology must be prese	ent, unless disturbed o	or problematic.
	Restrictive Layer (if observ	ed):			
	Type:	Tree roots	Hydr	ic Soil Present?	Yes No <u>_</u> ✓
Depth (inches): 14	Depth (inches):	: 14			



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet Energy Ce	enter City/County: Cate	o, Cayuga	Sampling Date: 2020-June-19		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-	BTF-17_UPL-2	
Investigator(s): Brenner Fah	renz, Ryan Snow	Section, Township,	Range:		
Landform (hillslope, terrace, et	c.): Hillslope	Local relief (concave, conv	vex, none): Convex	Slope (%): 2 to 5	
Subregion (LRR or MLRA):	LRR R	Lat: 43.144875362	3 Long: -76.6301243732	Datum: WGS84	
Soil Map Unit Name: Hilton	loam, 3 to 8 percent slopes		NWI classificat	ion: None	
Are climatic/hydrologic conditi	ons on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.	)	
Are Vegetation 🟒, Soil 🟒			al Circumstances" present?	Yes No _ <b>_</b>	
Are Vegetation, Soil	_, or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remark	(s.)	
SUMMARY OF FINDINGS -	- Attach site map showing sampli	ng point locations, trar	nsects, important features	, etc.	
Hydrophytic Vegetation Prese	nt? Yes No _ <b>_/</b> _				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland? Y	es No⁄_	
•		·		<u></u>	
Wetland Hydrology Present?	Yes No _ <b>∠</b>	If yes, optional Wetland S	ite ID:		
•	procedures here or in a separate report				
	nd, not all three wetland parameters ar	'	are not normal due to agricultur	al activities.	
Ditches/drain tiles observed. A	ATV/ORV impacts observed. Drought cor	nditions .			
TADDOI OCA					
HYDROLOGY					
Wetland Hydrology Indicators	:				
Primary Indicators (minimum	of one is required; check all that apply)		Secondary Indicators (minimu	m of two required)	
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B´		Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C	2)	
Sediment Deposits (B2)		heres on Living Roots (C3)	Crayfish Burrows (C8)		
			Saturation Visible on Aeria	l Imagery (C9)	
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants	(D1)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)		
Inundation Visible on Aeria	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopographic Relief (D	4)	
Sparsely Vegetated Concav	ve 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 No	
Saturation Present?	Yes No <u></u> Depth	(inches):	-		
(includes capillary fringe)			-		
Describe Recorded Data (strea	am gauge, monitoring well, aerial photo	s, previous inspections), if a	avaliable:		
Remarks:					

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant				
		Species?	Status	Number of Dominant Species That	0	(A)
1	0			Are OBL, FACW, or FAC:	-	<del></del>
2				Total Number of Dominant Species Across All Strata:	2	(B)
3						
4				<ul><li>Percent of Dominant Species That</li><li>Are OBL, FACW, or FAC:</li></ul>	0	(A/B)
5				Prevalence Index worksheet:		<del></del>
6				Total % Cover of:	Multiply	D. e
7.					$\frac{\text{Multiply}}{\times 1} =$	-
	0	= Total Co	ver		-	0
Sapling/Shrub Stratum (Plot size: 15 ft )		_		FACW species 0	x 2 =	0
1.	0			FAC species 0	x 3 =	0
2.			-	FACU species 15	x 4 =	60
3.				— UPL species 15	x 5 =	75
-				— Column Totals 30	(A)	135 (B)
4				Prevalence Index = B/A =	4.5	
5				Hydrophytic Vegetation Indicators:		
6				—   1- Rapid Test for Hydrophytic	Vegetation	ı
7				2 - Dominance Test is > 50%		•
	0	= Total Co	ver	$3 - Prevalence Index is \le 3.01$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Drovido	cupporting
1. Glycine max	30	Yes	NI	— data in Remarks or on a separate si		supporting
2. Zea mays	15	Yes	UPL	—   Problematic Hydrophytic Vege		(nicla)
3. Ambrosia artemisiifolia	10	No	FACU			
4. Poa pratensis	5	No	FACU	<ul> <li>Indicators of hydric soil and wetlar</li> <li>present, unless disturbed or proble</li> </ul>	-	gy must be
5.				· · · · · · · · · · · · · · · · · · ·	matic	
6.				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h		
8				Sapling/shrub – Woody plants less t		DBH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardiess of
11				size, and woody plants less than 3.2		20 %
12				Woody vines – All woody vines grea	iter than 3	.28 π in
	60	= Total Co	ver	height.		
Woody Vine Stratum (Plot size:30 ft)		_'		Hydrophytic Vegetation Present?	Yes N	lo <u>√</u>
1.	0					
2.				_		
3.				-		
4.				—		
<b>4.</b>		- Total Co		_		
	0	= Total Co	ver			
Remarks: (Include photo numbers here or on a separat	e sheet.)					
Active agricultural field.						

Depth	cription: (Describe Matrix	to the d	lepth needed to o Redox			indicator	or confirm the al	osence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0 - 9	10YR 3/2	100					Loam	
9 - 12	10YR 4/2	85	10YR 5/6	15	С	М	Silt Loam	
				_				
	_							
	_							
	_							
		·_—.		. —		<del></del> .		
	Concentration, D =	Depleti	on, RM = Reduced	Mat	rıx, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil			Dobaretre D	م بیرور	fa 'C	O) /  DD 1	D MIDA 440DV	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	i (A1) pipedon (A2)		Polyvalue Be				R, MLRA 149B) A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			` '	•	5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Stratifie	ed Layers (A5)		Depleted Ma	trix (f	<del>-</del> 3)			Polyvalue Below Surface (S8) (LRR K, L)
	ed Below Dark Surf	ace (A11						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da					Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	ession	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	Redox (S5)							Red Parent Material (F21)
	d Matrix (S6) ırface (S7) <b>(LRR R, I</b>	ALDA 14	OD)					Very Shallow Dark Surface (TF12)
Dark St	111ace (37) <b>(ERR R, 1</b>	VILKA 14	, Joe					Other (Explain in Remarks)
	of hydrophytic veg		and wetland hyd	rolog	y must b	e presen	t, unless disturbe	d or problematic.
Restrictive	Layer (if observed)							
	Type:	H	ard pan layer			Hydric	Soil Present?	Yes No
	Depth (inches):	_	12					
Remarks:								
Soil signific	antly disturbed as	a result	of tilling.					
ĺ								
İ								



Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet Energy Cent	er <u>City/County:</u> Cate	o, Cayuga	Sampling Date: 2020-June-22			
Applicant/Owner: NextEra		State: NY	Sam	npling Point: W-BTF	-18_PEM-1	
Investigator(s): Brenner Fahrer	nz, Casey Pearce	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Toe	Local relief (concave, conv	ex, none): Con	ncave	Slope (%): 0 to 1	
Subregion (LRR or MLRA):	RR R	Lat: 43.141156555	4 Long: -76.	.6333883047	Datum: WGS84	
Soil Map Unit Name: Alden mu	ıcky silt loam			NWI classification:	PEM	
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	_✔ (If no, expl	lain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumstance	es" present? Yo	es No _ <b>_</b> /_	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any an	swers in Remarks.)		
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trar	sects, impor	rtant features, et	tc.	
Hydrophytic Vegetation Present?	? Yes _ 🗸 No					
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area withi	n a Wetland?	Ves	∠_ No	
_		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te iD:	W-BT	F-18	
	ocedures here or in a separate report					
	id, all three wetland parameters are រុ	· ·	bserved. Circur	mstances are not no	ormal due to	
agricultural activities. Ditches/dra	ain tiles observed. Drought condition	S.				
HYDROLOGY						
Wetland Hydrology Indicators:					<b>.</b>	
Primary Indicators (minimum of	one is required; check all that apply)		_	dicators (minimum o	of two required)	
Surface Water (A1)	<u></u> Water-Stained Le		<u>✓</u> Surface Soi			
High Water Table (A2)	Aquatic Fauna (B <sup>2</sup>		•	Patterns (B10)		
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		Crayfish Bu			
Sediment Deposits (B2)	<u></u> Oxidized Rhizosp	heres on Living Roots (C3)	•	urrows (Co) I Visible on Aerial Im	agery (C9)	
Drift Deposits (B3)	Presence of Redu	seed Iron (C4)				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aq			
Inundation Visible on Aerial Ir				graphic Relief (D4)		
Sparsely Vegetated Concave S		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FAC-Neutra			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?		(inches):	Watland ⊔udr	ology Present?	Vos. / No	
		· -	vveuaria nyuri	ology Present?	Yes No	
Saturation Present?	Yes No Depth	(inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						
Remarks.						
İ						

T <u>ree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	nt 4	(A)
2.				Total Number of Dominant Specie Across All Strata:	es 4	(B)
8 I				Percent of Dominant Species Tha Are OBL, FACW, or FAC:	t 100	(A/B)
i				Prevalence Index worksheet:		
				Total % Cover of:	Multiply I	<u>Ву:</u>
		= Total Cov		OBL species 75	x 1 =	75
apling/Shrub Stratum (Plot size:15 ft)		_ 10tal Cov	ei	FACW species 50	x 2 =	100
. Fraxinus pennsylvanica	15	Voc	EACW	FAC species 10	x 3 =	30
	10	Yes	FACW	FACU species 0	x 4 =	0
. Salix nigra		Yes	OBL	UPL species 0	x 5 =	0
				Column Totals 135	(A)	205 (B)
·				Prevalence Index = B/A	= 1.5	
•				Hydrophytic Vegetation Indicator	<del></del>	
•				1- Rapid Test for Hydrophyti		
				✓ 2 - Dominance Test is >50%		
	25	_= Total Cov	er	✓ 3 - Prevalence Index is ≤ 3.0	1	
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptatio		supporting
. Lythrum salicaria	35	Yes	OBL	data in Remarks or on a separate		
. Solidago gigantea	25	Yes	FACW	Problematic Hydrophytic Ve		plain)
. Typha angustifolia	15	No	OBL	¹Indicators of hydric soil and wetl	_	-
. Onoclea sensibilis	10	No	FACW	present, unless disturbed or prob	, .	,,
. Carex lurida	10	No	OBL	Definitions of Vegetation Strata:		
Eutrochium purpureum	10	No	FAC	Tree – Woody plants 3 in. (7.6 cm)	or more in c	liameter a
. Carex lurida	5	No	OBL	breast height (DBH), regardless o		
d.				Sapling/shrub – Woody plants les		BH and
·				greater than or equal to 3.28 ft (1	m) tall.	
0.				Herb – All herbaceous (non-wood	y) plants, reg	ardless of
1				size, and woody plants less than 3	3.28 ft tall.	
2.				Woody vines – All woody vines gr	eater than 3.	28 ft in
	110	= Total Cov	er	height.		
Voody Vine Stratum (Plot size:30 ft)		-	Ci	Hydrophytic Vegetation Present?	Yes <u></u> ✓ N	0
	0					
·						
3						
1		= Total Cov	er			

	cription: (Describe	to the	=			indicator	or confirm the ab	osence of ind	licators.)
Depth	Matrix				tures		<b>-</b> .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Texture		Remarks
0 - 8	10YR 3/1	95	10YR 5/8	5	C	M/PL	Clay Loa		
8 - 17	10YR 6/3	70	10YR 6/8	30	C	M	Sandy Lo	am	
		- —							
		- —							
		- —							
		- —							
		- —							
		- —							
		- —					-		
		- —							
¹Type: C = 0	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	trix, MS =	= Masked	Sand Grains. <sup>2</sup> Lo		Pore Lining, M = Matrix.
Hydric Soil								Indicators f	for Problematic Hydric Soils³:
Histoso			-				R, MLRA 149B)	2 cm M	uck (A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark S					Coast P	rairie Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Mud				-)	5 cm M	ucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
_	en Sulfide (A4) ed Layers (A5)		Loamy Gley Depleted M						ırface (S7) <b>(LRR K, L)</b>
	ed Below Dark Surf	ace (A						-	ue Below Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted D			7)			rk Surface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Dep		-	•			anganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		•						ont Floodplain Soils (F19) (MLRA 149B)
_	Redox (S5)								podic (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)								rent Material (F21)
	ırface (S7) <b>(LRR R, I</b>	MLRA 1	149B)					-	allow Dark Surface (TF12) Explain in Remarks)
	of hydrophytic veg Layer (if observed)		n and wetland hy	drolo	gy must I	oe presen	t, unless disturbe	d or problem	natic.
nesa reare	Type:		lard pan layer			Hydric S	oil Present?		Yes No
	Depth (inches):		17			liyanes	on reserie.		163 <u>-</u> 110
Remarks:	Deptir (irieries).		.,,						
Kerriarks.									
ı									
i									
l									



Photo of Sample Plot East



Photo of Sample Plot South



Project/Site: Garnet Energy C	Center City/County: Cate	o, Cayuga	Sampling Date:	2020-June-22	
Applicant/Owner: NextEra		State: NY	Sampling Point: V	/-BTF-18_PFO-1	
Investigator(s): Brenner Fal	hrenz, Casey Pearce	Section, Township,	Range:		
Landform (hillslope, terrace, e	etc.): Swamp	Local relief (concave, conv	ex, none): Concave	Slope (%): 1 to 3	
Subregion (LRR or MLRA):	LRR R	Lat: 43.140722053	9 Long: -76.6333872839	Datum: WGS84	
Soil Map Unit Name: Alden	n mucky silt loam		NWI classifica	ation: PFO	
Are climatic/hydrologic condit	tions on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in Remark	s.)	
Are Vegetation, Soil			al Circumstances" present?	Yes No	
Are Vegetation, Soil	, or Hydrology naturally prob	lematic? (If needed,	explain any answers in Rema	rks.)	
SUMMARY OF FINDINGS	<ul> <li>Attach site map showing sampli</li> </ul>	ng point locations, trar	nsects, important feature	es, etc.	
Hydrophytic Vegetation Pres	ent? Yes <u></u> No				
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	/es/_ No	
Wetland Hydrology Present?		If yes, optional Wetland Si	te ID: \	N-BTF-18	
	<del> </del>		te ib.	W B11 10	
•	procedures here or in a separate report				
Covertype is PFO. Area is wet	land, all three wetland parameters are p	resent. Drought conditions	•		
HYDROLOGY					
Wetland Hydrology Indicator	s:				
Primary Indicators (minimum	of one is required; check all that apply)		Secondary Indicators (minim	um of two required)	
Surface Water (A1)	⁄ Water-Stained Lea	aves (B9)	✓ Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)		
✓ Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (	(C2)	
✓ Sediment Deposits (B2)	<u></u> Oxidized Rhizospl	heres on Living Roots (C3)	Crayfish Burrows (C8)		
			Saturation Visible on Aer	ial Imagery (C9)	
Drift Deposits (B3)	Presence of Redu	• •	Stunted or Stressed Plan		
✓ Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)		
Inundation Visible on Aer	3 3 4 4 4 7	Remarks)	✓ Microtopographic Relief (	D4)	
<u>✓</u> Sparsely Vegetated Conca	ave Surface (B8)		✓ FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	•	(inches):			
Water Table Present?	Yes No Depth	(inches):	Wetland Hydrology Present?	Yes _ <b>∠</b> _ No	
Saturation Present?	Yes No _ <b>_/</b> Depth	(inches):			
(includes capillary fringe)					
Describe Recorded Data (stre	eam gauge, monitoring well, aerial photo	s. previous inspections), if a	available:	•	
	g. 1817	.,,			
Remarks:					
Remarks.					

ree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	4	(A)
. Ulmus americana	85	Yes	FACW	Are OBL, FACW, or FAC:		
. Acer rubrum	10	No	FAC	Total Number of Dominant Species	5	(B)
. Fraxinus pennsylvanica	5	No	FACW	Across All Strata:		
				Percent of Dominant Species That Are OBL, FACW, or FAC:	80	(A/B)
i				Prevalence Index worksheet:		
·				Total % Cover of:	Multiply I	Bv:
				OBL species 20	x 1 =	20
	100	= Total Cov	er	FACW species 115	x 2 =	230
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 10	x 3 =	30
. <u>Ulmus americana</u>	10	Yes	FACW	FACU species 20	x 4 =	80
				UPL species 0	x 5 =	0
·				Column Totals 165	-	360 (B)
					(A) _	300 (b)
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators:		
·. ————————————————————————————————————				1- Rapid Test for Hydrophytic	Vegetation	
	10	= Total Cov	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		-		$\checkmark$ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
. Symplocarpus foetidus	20	Yes	OBL	4 - Morphological Adaptation		supporting
Fraxinus pennsylvanica	10	Yes	FACW	data in Remarks or on a separate s		1
. Lindera benzoin	5	No	FACW	Problematic Hydrophytic Veg		-
l.			171011	Indicators of hydric soil and wetla	, .	gy must be
·				present, unless disturbed or problem	ematic	
5.				Definitions of Vegetation Strata:		
7.				Tree – Woody plants 3 in. (7.6 cm) (		ilameter a
				breast height (DBH), regardless of		DILand
3.				Sapling/shrub – Woody plants less greater than or equal to 3.28 ft (1 r		DH allu
).				Herb – All herbaceous (non-woody		rardlass of
· ·				size, and woody plants less than 3.		gar aress or
1				Woody vines – All woody vines gre		28 ft in
2	- ——			height.		20 10
	35	_= Total Cov	er	Hydrophytic Vegetation Present?	Voc / N	0
Voody Vine Stratum (Plot size: 30 ft)				Trydrophytic vegetation Fresent:	162 <u>^</u> IA	·
. Vitis aestivalis	20	Yes	FACU			
•						
2						

	cription: (Describe	to the	•			indicator	or confirm the al	bsence of ind	icators.)
Depth	Matrix			k Feati			<b>-</b> .		
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 8	10YR 3/1	90	10YR 4/6	10	С	PL	Loam		
8 - 20	10YR 5/4	90	10YR 7/6	10	C	<u>M</u>	Sandy Lo	oam	
								-	-
								_	
1Type: C = 0	Concentration, D =	 Denlet	ion RM = Reduce	d Mat	rix MS =	Masked	Sand Grains 21 (	ocation: PL =	Pore Lining, M = Matrix.
Hydric Soil		Schier	, ravi neduce	a ivial	, 1413 -	.,,uskeu	Jana GranisLC		or Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalua B	عاصیہ د	iurfaca (G	58) (I DD I	R, MLRA 149B)		•
	oipedon (A2)		Polyvalue Bi						uck (A10) (LRR K, L, MLRA 149B)
	stic (A3)		Loamy Muc						rairie Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gley			(Litting L	- <i>)</i>		ucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted M						rface (S7) (LRR K, L)
	d Below Dark Surfa	ace (A1						-	le Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7	)			rk Surface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	ıs (F8)				nganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)								nt Floodplain Soils (F19) (MLRA 149B)
_	ledox (S5)								podic (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)								ent Material (F21)
	rface (S7) (LRR R, M	ILRA 1	49B)					-	allow Dark Surface (TF12)
	,		•					Other (E	xplain in Remarks)
	of hydrophytic veg		and wetland hyd	drolog	y must b	e presen	t, unless disturbe	d or problem	atic.
Restrictive	Layer (if observed):								
	Type:		None	-		Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
1									



Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet En	ergy Center	City/County: Cato	o, Cayuga	Sampling Date: 2020-June-22			
Applicant/Owner: Ne	ktEra		State: NY	Sampling Po	oint: W-BTF-18_UPL-1		
Investigator(s): Brenn	er Fahrenz, Casey Pearce		Section, Township,	Range:			
Landform (hillslope, terr	ace, etc.): Terrace		Local relief (concave, conv	ex, none): Convex	Slope (%): 2 to 5		
Subregion (LRR or MLRA	): LRR R		Lat: 43.140766078	6 <b>Long:</b> -76.633112	2491 <b>Datum:</b> WGS84		
Soil Map Unit Name: _	Hilton loam, 3 to 8 percent	slopes		NWI c	lassification: None		
Are climatic/hydrologic	onditions on the site typic	al for this time of ye	ar? Yes No	_✓ (If no, explain in F	Remarks.)		
Are Vegetation, S		significantly dis		al Circumstances" pres			
Are Vegetation, S	oil, or Hydrology _	naturally probl	ematic? (If needed,	explain any answers ir	n Remarks.)		
SUMMARY OF FINDI	NGS – Attach site map	showing sampli	ng point locations, trai	nsects, important fo	eatures, etc.		
Hydrophytic Vegetation	Present? Yes	No _ <b>_</b> _					
Hydric Soil Present?		No	Is the Sampled Area withi	n a Wetland?	Yes No/_		
Wetland Hydrology Pre		No	If yes, optional Wetland S				
		-		ite ib.			
•	native procedures here or i	•					
, ·	s upland, not all three wet	and parameters are	e present. Ditches/drain til	es observed. ATV/ORV	impacts observed. Drought		
conditions .							
HYDROLOGY							
Wetland Hydrology Indi	cators:						
	cators. imum of one is required; c	hack all that apply)		Secondary Indicators	(minimum of two required)		
	imum or one is required, c			-	(minimum of two required)		
Surface Water (A1)		_ Water-Stained Lea		Surface Soil Crack Drainage Patterns			
High Water Table (A	<u> </u>	_ Aquatic Fauna (B1		Moss Trim Lines (E			
Saturation (A3)		_ Marl Deposits (B1 _ Hydrogen Sulfide		Dry-Season Water			
Water Marks (B1) Sediment Deposits (	E2)		neres on Living Roots (C3)	Crayfish Burrows			
sediment Deposits (		_ Oxidized Kriizospi	ieres on Living Roots (C3)		on Aerial Imagery (C9)		
Drift Deposits (B3)		_ Presence of Redu	ced Iron (C4)	Stunted or Stresse			
Algal Mat or Crust (E	34)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		_ _ Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible o	n Aerial Imagery (B7)	_ Other (Explain in I	Remarks)	Microtopographic			
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 Pi	resent? Yes No		
Saturation Present?	Yes No _		(inches):				
		<u>у</u> Берип	(IIICHES).	-			
(includes capillary fring							
Describe Recorded Dat	a (stream gauge, monitorin	g well, aerial photos	s, previous inspections), if	available:			
Remarks:							
1							

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet:  Number of Dominant Species That	(4)
. Carya cordiformis	50	Yes	FAC	Are OBL, FACW, or FAC:	(A)
. Acer saccharum	25	Yes	FACU	Total Number of Dominant Species 7	(B)
. Pinus banksiana	20	No	FACU	Across All Strata:	
. Prunus pensylvanica	10	No	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
i				Prevalence Index worksheet:	_
				Total % Cover of: Multiply By:	:
·				OBL species 0 x 1 =	0
	105	= Total Cov	er	FACW species 10 x 2 =	20
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 100 x 3 =	300
. Carya ovata	30	Yes	FACU	FACU species 160 x 4 =	640
. Lindera benzoin	5	No	FACW	UPL species 0 x 5 =	0
. Fraxinus pennsylvanica	5	No	FACW		60 (B)
• <u> </u>				Prevalence Index = B/A =	00 (b)
				Hydrophytic Vegetation Indicators:	
				1- Rapid Test for Hydrophytic Vegetation	
	40	= Total Cov	er	2 - Dominance Test is > 50%	
lerb Stratum (Plot size: 5 ft )		-		3 - Prevalence Index is ≤ 3.0¹	
. Pteridium aquilinum	25	Yes	FACU	4 - Morphological Adaptations¹ (Provide su	porting
. Podophyllum peltatum	25	Yes	FACU	data in Remarks or on a separate sheet)	
. Parthenocissus quinquefolia	15	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Expla	
. Alliaria petiolata		No	FACU	¹Indicators of hydric soil and wetland hydrology	must be
			FACO	present, unless disturbed or problematic	
				Definitions of Vegetation Strata:	
5.				Tree – Woody plants 3 in. (7.6 cm) or more in dia	meter a
·				breast height (DBH), regardless of height.	
3.				Sapling/shrub – Woody plants less than 3 in. DBI	1 and
				greater than or equal to 3.28 ft (1 m) tall.	عددال
0				Herb – All herbaceous (non-woody) plants, regar size, and woody plants less than 3.28 ft tall.	aless of
1				Woody vines – All woody vines greater than 3.28	ft in
2				height.	11111
	75	= Total Cov	er		
Voody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present? Yes No _	
. Toxicodendron radicans	50	Yes	FAC		
-				•	
 3 1.					

Depth (inches)         Matrix         Redox Features           0 - 11         7.5YR 4/3         100         % Type¹ Loc²         Texture         Remarks           Loam         Loam         Loam         Loam         Remarks	
<del></del>	
0 - 11 7.5YR 4/3 100 Loam	
<sup>1</sup> Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.	
Hydric Soil Indicators: Indicators for Problematic Hydric So	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Pedox (A16) (LRP K	
Plack Histis (A2) Learny Musky Minoral (E1) (LRD K. L.)	· · ·
Hydrogen Sulfide (A4) Loamy Gleved Matrix (F2)	≀R K, L, R)
Stratified Layers (A5)  Depleted Matrix (F3)  Dark Surface (S7) (LKK K, L)	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	kR K, L)
Thick Dark Surface (A12)  Depleted Dark Surface (F7)  — Thin Dark Surface (S9) (LKK K, L)	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (L	· · ·
Piedmont Floodplain Soils (F19)	
Sandy Redox (SS)	145, 1498)
Stripped Matrix (SC)	
Dark Surface (S7) (LDD D. MLDA 140D)	.)
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: Hard pan layer Hydric Soil Present? Yes No/	
Depth (inches): 11	
Remarks:	



Photo of Sample Plot North



Photo of Sample Plot South



Project/Site: Garnet Energy Cent	ter City/County: Cat	o, Cayuga	Sampling Date: 2020-June-22			
Applicant/Owner: NextEra		State: NY	S	ampling Point: W-BTF-19_PFO-1		
Investigator(s): Brenner Fahre	nz, Casey Pearce	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Swamp	Local relief (concave, conv	/ex, none):(	Concave	Slope (%): 0 to 1	
Subregion (LRR or MLRA): L	RR R	Lat: 43.151409220	5 <b>Long:</b> -	76.6261285137	Datum: WGS84	
Soil Map Unit Name: Muck, sh	allow			NWI classification	: PFO	
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, e	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumsta	nces" present? Y	es _ <b>✓</b> No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, imp	oortant features, e	tc.	
Hydrophytic Vegetation Present	? Yes _ 🗸 No	<u> </u>				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland	2 Voc	✓_ No	
		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	<u>W-BT</u>	F-19	
Remarks: (Explain alternative pro	ocedures here or in a separate repor	t)				
Covertype is PFO. Area is wetlan	d, all three wetland parameters are p	resent. Drought conditions	; <b>.</b>			
		9				
HYDROLOGY						
Wetland Hydrology Indicators:					<b>6</b>	
Primary Indicators (minimum of	one is required; check all that apply)		-	Indicators (minimum o	of two required)	
<u>✓</u> Surface Water (A1)	<u></u> Water-Stained Le	aves (B9)		Soil Cracks (B6)		
<u>✓</u> High Water Table (A2)	∕ Aquatic Fauna (B	13)	_	ge Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B1	15)		im Lines (B16)		
✓ Water Marks (B1)	_ <u>✓</u> Hydrogen Sulfide	Odor (C1)	-	son Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	-	Burrows (C8)		
			_ <u>✓</u> Saturati	on Visible on Aerial Im	nagery (C9)	
Drift Deposits (B3)	Presence of Redu			or Stressed Plants (D	1)	
Algal Mat or Crust (B4)	<del></del>	ction in Tilled Soils (C6)		rphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surfac			Aquitard (D3)		
✓ Inundation Visible on Aerial I	magery (B7) Other (Explain in	Remarks)	Microto	pographic Relief (D4)		
✓ Sparsely Vegetated Concave	Surface (B8)		<u></u> ✓ FAC-Neu	utral Test (D5)		
Field Observations:						
Surface Water Present?	Yes 🟒 No Depth	(inches): 2	_			
Water Table Present?	Yes 🔽 No Depth	(inches): 4	Wetland Hy	drology Present?	Yes No	
Saturation Present?	Yes 🗸 No Depth	(inches): 0	=			
(includes capillary fringe)			=			
	n gauge, monitoring well, aerial photo	s provious inspections) if	available.		<del></del> -	
Describe Recorded Data (stream	rgauge, monitoring well, aeriai photo	is, previous irispections), ii d	avaliable.			
Remarks:						

	Dominant Species?	Indicator Status	Dominance Test worksheet Number of Dominant Spec		5	(A)
75	Yes	FACW	Are OBL, FACW, or FAC:	,		(A)
15	No	FACW	Total Number of Dominant Across All Strata:	Species	5	(B)
				es That	100	(A/B)
				et:		
					Multiply E	Bv:
				5		5
90	= Total Cov	er	FACW species	130	x 2 =	260
			· -			15
30	Yes	FACW				0
			· —		_	0
					_	
					_	280 (B)
			Prevalence Index	( = B/A =		
			• • •			
			1- Rapid Test for Hydr	ophytic V	egetation	
	- Total Cov	or	2 - Dominance Test is	>50%		
	_ 10tal COV	ei	3 - Prevalence Index is	$s \le 3.0^{1}$		
10	V	EACIA!	4 - Morphological Ada	aptations <sup>1</sup>	(Provide s	upporting
			data in Remarks or on a se	parate sh	eet)	
5	Yes	OBL	Problematic Hydroph	ytic Veget	ation¹ (Exp	olain)
			Indicators of hydric soil an	nd wetland	d hydrolog	y must be
			present, unless disturbed of	or probler	natic	
			Definitions of Vegetation S	trata:		
			Tree – Woody plants 3 in. (7	7.6 cm) or	more in d	iameter a
					_	BH and
			Herb – All herbaceous (nor	n-woody) į	olants, reg	ardless of
						28 ft in
				J		
15	_= Total Cov	er	Hydrophytic Vegetation Pr	rocont? V	oc / N	2
			Trydrophytic vegetation Fi	esent: 1	C2 IN	<i></i>
	Yes	FAC				
5						
_ 5						
_ <u>5</u> 						
5						
	75 15 90 30 10 5	15 No  90 = Total Cov  30 Yes  30 = Total Cov  10 Yes  5 Yes	75 Yes FACW 15 No FACW  90 = Total Cover  30 Yes FACW  30 = Total Cover  10 Yes FACW 5 Yes OBL	Tell Total Cover  Total Number of Dominant Across All Strata:  Percent of Dominant Special Are OBL, FACW, or FAC:  Total Number of Dominant Across All Strata:  Percent of Dominant Special Are OBL, FACW, or FAC:  Prevalence Index workshee  Total % Cover of:  OBL species  FACW species  FACU species  UPL species  Column Totals  Prevalence Index  Hydrophytic Vegetation Index  1 - Rapid Test for Hydr  2 - Dominance Test is  3 - Prevalence Index is  4 - Morphological Additation Remarks or on a see  Problematic Hydroph  Indicators of hydric soil are present, unless disturbed of Definitions of Vegetation Stree - Woody plants 3 in. (5)  Tree - Woody plants 3 in. (5)  Tree - Woody plants 3 in. (5)  Breast height (DBH), regard Sapling/shrub - Woody plants are than or equal to 3.3.  Herb - All herbaceous (nor size, and woody plants less Woody vines - All wo	75 Yes FACW 15 No FACW 15 No FACW 16 No FACW 17 Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:  Total % Cover of: OBL species 5 FACW species 5 FACW species 5 FACU species 0 UPL species 0 UPL species 0 Column Totals 140 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ————————————————————————————————————	Tell Tyes FacW  Total Number of Dominant Species Secretary Secret

Profile Des	cription: (Describe Matrix	to the de	epth needed to do Redox			indicato	r or confirm the	e absence of indicators.)			
l -						1 = =2	Tanduma	Damanto			
(inches)	Color (moist)	<u> </u>	Color (moist)	9/0	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0 - 24	10YR 2/2	100		_			Muck				
				_							
				_							
				_							
				_							
				_							
				_							
				_							
		. —		_							
				_							
				_							
¹Type: C = 0	Concentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.			
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histoso			Polyvalue Bel	ow S	urface (۶	8) <b>(LRR I</b>	R. MLRA 149B)	•			
	oipedon (A2)		Thin Dark Sur					2 cm Muck (A10) (LRR K, L, MLRA 149B)			
	istic (A3)		Loamy Mucky					Coast Prairie Redox (A16) (LRR K, L, R)			
	en Sulfide (A4)		Loamy Gleyed			. ,	•	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	d Layers (A5)		Depleted Mat					Dark Surface (S7) (LRR K, L)			
	d Below Dark Surf							Polyvalue Below Surface (S8) (LRR K, L)			
	ark Surface (A12)		 Depleted Dar			)		Thin Dark Surface (S9) (LRR K, L)			
	Mucky Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)			
	Gleyed Matrix (S4)		_ '		. ,			Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>			
_	Redox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>			
_	d Matrix (S6)							Red Parent Material (F21)			
		ALDA 140	)D)					Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7) <b>(LRR R, N</b>	VILKA 145	7D)					Other (Explain in Remarks)			
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	it, unless distur	bed or problematic.			
	Layer (if observed)		, , , , , , , , , , , , , , , , , , ,		,		.,	p			
	Type:		None			Hydric	Soil Present?	Yes No			
	• .		None			liyanc	John resent:	163 <u>y</u> 110			
	Depth (inches):							<del></del>			
Remarks:											

**Hydrology Photos** 





Photo of Sample Plot East



Project/Site: Garnet Energy Cent	ter <u>City/County:</u> Cato	o, Cayuga	Sampling Date:	2020-June-22
Applicant/Owner: NextEra		State: NY	Sampling Point: \_\	W-BTF-19_UPL-1
nvestigator(s): Brenner Fahre	nz, Casey Pearce	Section, Township,	Range:	
andform (hillslope, terrace, etc.)	: Hillslope	Local relief (concave, conv	ex, none): Convex	Slope (%): 25 to 30
Subregion (LRR or MLRA): L	RR R	Lat: 43.151416562	3 Long: -76.6262504857	Datum: WGS84
Soil Map Unit Name: Ontario l	oam, 14 to 20 percent slopes		NWI classific	cation: None
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remar	ks.)
Are Vegetation <u></u> , Soil <u>,</u> ,	or Hydrology significantly di		al Circumstances" present?	Yes No _ <b>_/</b>
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Rem	arks.)
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, important featur	es, etc.
Hydrophytic Vegetation Present	? Yes No _ <b>_/</b> _			
Hydric Soil Present?	Yes No _ <b>_</b> _	Is the Sampled Area withi	n a Wetland?	Yes No⁄_
Wetland Hydrology Present?	Yes No <b></b> _	If yes, optional Wetland S		<del></del> <del></del>
,			ite ib.	
·	ocedures here or in a separate report		_	
Covertype is UPL. Circumstances	s are not normal due to agricultural a	ctivities. Drought condition	S.	
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minir	num of two required)
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table	(C2)
Sediment Deposits (B2)	Oxidized Rhizospl	heres on Living Roots (C3)	Crayfish Burrows (C8)	
			Saturation Visible on Ae	
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plan	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D	2)
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)	· (D.4)
Inundation Visible on Aerial I	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	·	(inches):		
Water Table Present?	Yes No Depth	(inches):	Wetland Hydrology Present	? Yes No <b>/</b>
Saturation Present?	Yes No Depth	(inches):		
(includes capillary fringe)				
	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:	
	. 88-,	-, p,		
Domarke				
Remarks:				

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	Гhat	<i></i>
1.	0	· ·		Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Spe	ecies 2	(D)
3.				Across All Strata:		(B)
4.			-	Percent of Dominant Species T	hat 0	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	<u> By:</u>
7.		= Total Cov		OBL species 0	x 1 =	0
Condination of Charles on Aller Sizes 45 ft		_ 10tal Co	ver	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )	0			FAC species 0	x 3 =	0
1	0			– FACU species 25	x 4 =	100
2.				UPL species 0	x 5 =	0
3				- Column Totals 25	(A)	100 (B)
4				Prevalence Index = B		
5				Hydrophytic Vegetation Indicat		·
6.				1- Rapid Test for Hydroph		0
7			-	2 - Dominance Test is > 5		11
	0	= Total Co	ver			
Herb Stratum (Plot size: <u>5 ft</u> )	·	_		3 - Prevalence Index is ≤		
1. Glycine max	35	Yes	NI	4 - Morphological Adapta – data in Remarks or on a separa		supporting
2. Poa pratensis	15	Yes	FACU	Problematic Hydrophytic		volaio)
3. Phytolacca americana	10	No	FACU	Indicators of hydric soil and w		
4.			-	_ present, unless disturbed or pi		ogy must be
5.						
6.			-	_ Definitions of Vegetation Strate		diameter at
7.				Tree – Woody plants 3 in. (7.6 c breast height (DBH), regardles:		diameter at
-			-	Sapling/shrub – Woody plants		DPU and
8.				greater than or equal to 3.28 ft		рып апи
9.				Herb – All herbaceous (non-wo		agardless of
10				size, and woody plants less tha		garaiess or
11				Woody vines – All woody vines		3 28 ft in
12				height.	greater triaire	5.20 10 111
	60	_= Total Co	ver		-+3 \/	N
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Prese	it? Yes	NO
1	0			_		
2				_		
3				_		
4.						
	0	= Total Cov	ver	_		
		_			_	
Remarks: (Include photo numbers here or on a sepa	arate sneet.)					
Active agricultural field.						

	•	to the de	•			indicato	r or confirm the a	bsence of indicators.)
Depth _	Matrix	04	Redox			1002	Touturo	Domarke
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 10	10YR 5/2	100		_			Loam	<del></del>
				_				
				_				<del></del>
		· —		_	-			
		· ——		_	-			
				_				
				_				
				_				
				_				
				_				
				_				
				_				
	Concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			•				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck			(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	ace (A11	'					Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	acc (/ tri	Depleted Dark			)		Thin Dark Surface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depre			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)				. ,			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) (LRR R, M	ILRA 149	9B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic veg		and wetland hydi	olog	y must b	e preser	nt, unless disturbe	ed or problematic.
Restrictive	Layer (if observed):					l lorder a	Cail Duanant?	Voc. No. (
	Type:	Н	ard pan layer			Hyaric	Soil Present?	Yes No/_
	Depth (inches):		10					
Remarks:								
Refusal due	e to coarse fragmer	nts. No p	ositive indication	of h	ydric soi	ls was o	bserved.	



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Garnet	City/County: Cate	o, Cayuga	Sampling Date: 2020	O-June-18
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-	01; PFO-1
Investigator(s): Jake Brillo, Rya	an Snow	Section, Township, F	Range:	
Landform (hillslope, terrace, etc.	c.): Depression	Local relief (concave, conve	ex, none): Flat	Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L	Lat: 43.1390229101	Long: -76.5972603858	Datum: WGS84
Soil Map Unit Name: Alden m	າucky silt loam, till substratum		NWI classification	<u> </u>
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes/_ No_	(If no, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	l Circumstances" present? Y	′es No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	explain any answers in Remarks.)	
SUMMARY OF FINDINGS –	Attach site map showing sampli	ng point locations, tran	sects, important features, e	tc.
Hydrophytic Vegetation Presen	nt? Yes No			
Hydric Soil Present?	Yes <u></u> No	Is the Sampled Area within	a Wetland? Yes _	<u>√</u> No
Wetland Hydrology Present?	Yes _ <b>_</b> No	If yes, optional Wetland Sit	e ID: W-JJB	I-01
	rocedures here or in a separate report			
TRC covertype is PFO.				
- · 				
HYDROLOGY				
Wetland Hydrology Indicators:				
	of one is required; check all that apply)		Secondary Indicators (minimum o	of two required)
			Surface Soil Cracks (B6)	•
Surface Water (A1)	Water-Stained Le		Drainage Patterns (B10)	
<ul><li>✓ High Water Table (A2)</li><li>✓ Saturation (A3)</li></ul>	Aquatic Fauna (B´ Marl Deposits (B1		✓ Moss Trim Lines (B16)	
Water Marks (B1)	Mari Deposits (Bi Hydrogen Sulfide		Dry-Season Water Table (C2)	
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrows (C8)	
Drift Deposits (B3)	Presence of Redu	_	Saturation Visible on Aerial Im	
Algal Mat or Crust (B4)		iction in Tilled Soils (C6)	Stunted or Stressed Plants (D <sup>-</sup>	1)
Iron Deposits (B5)	Thin Muck Surface	·o (C7)	Geomorphic Position (D2)	
Inundation Visible on Aerial	<del></del>	Domarks)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave			✓ Microtopographic Relief (D4)	
		<del></del> i	✓ FAC-Neutral Test (D5)	
Field Observations: Surface Water Present?	Yes No Depth	n (inches):		
Water Table Present?		<del></del>	Wetland Hydrology Present?	Yes No
Saturation Present?		n (inches):		
(includes capillary fringe)				
	m gauge, monitoring well, aerial photo	os provious inspections) if a	vailable:	<del></del> -
Describe Recorded Data (stream	in gauge, monitoring well, aeriai prioto	s, previous irispections), ir a	valiable.	
Remarks:				

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test workshee  Number of Dominant Spec		4	(A)
. Acer rubrum	60	Yes	FAC	Are OBL, FACW, or FAC:			
. Fraxinus pennsylvanica .	40	Yes	FACW	Total Number of Dominant Across All Strata:	·	4	(B)
				Percent of Dominant Speci Are OBL, FACW, or FAC:	ies That	100	(A/B)
				Prevalence Index workshe	et:		
i				Total % Cover of:		Multiply	Bv:
7				- OBL species	0	x 1 =	0
	100	_= Total Cov	er	FACW species	160	x 2 =	320
apling/Shrub Stratum (Plot size: 15 ft )				FAC species	60	x 3 =	180
				FACU species	0	x 4 =	0
				UPL species	0	x 5 =	0
B				Column Totals	220	(A)	500 (B)
				Prevalence Index	x = B/A =	2.3	
·				Hydrophytic Vegetation Inc			
j				1- Rapid Test for Hydr		/egetation	
				✓ 2 - Dominance Test is		egetation	
	0	= Total Cov	er	✓ 3 - Prevalence Index i			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Ada		(Provide	sunnorting
. Solidago gigantea	50	Yes	FACW	data in Remarks or on a se	•		3upporting
. Onoclea sensibilis	30	Yes	FACW	Problematic Hydroph	-		plain)
3. Impatiens capensis	20	No	FACW	Indicators of hydric soil ar	-		
l. <i>Poa palustris</i>	20	No	FACW	present, unless disturbed		-	3)
5.	-			Definitions of Vegetation S	•		
5.				Tree – Woody plants 3 in. (		more in	diameter a
7.				breast height (DBH), regard			
3.				Sapling/shrub - Woody pla	nts less th	han 3 in. [	DBH and
).				greater than or equal to 3.	28 ft (1 m	) tall.	
0.				Herb – All herbaceous (nor	n-woody)	plants, re	gardless of
1.				size, and woody plants less	s than 3.2	8 ft tall.	
2.				Woody vines – All woody v	ines great	er than 3	.28 ft in
·	120	= Total Cov	er	height.			
				Hydrophytic Vegetation Pr	resent? Y	∕es <u> <b>∕</b> </u>	lo
Noody Vine Stratum (Plot size: 30 ft )							
				-			
). 							
1							
Noody Vine Stratum (Plot size:30 ft)  12. 34.		= Total Cov					

Profile De	scription: (Describe	to the	depth needed to d	locu	ment the	indicato	or confirm the a	absence of indicato	ors.)
Depth	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Text	ture	Remarks
0 - 8	10YR 3/2	100		_			Silty Cla	ay Loam	
8 - 16	10YR 3/2	95	10YR 3/6	5	C	M/PL	Silt L	_oam	
16 - 20	10YR 4/2	95	10YR 5/8	5	С	М	Silt L	oam.	
-	•			_					
				_			-		
		. —		_					
				_					
				_			-		
	. ———			-					
		- —		_					
		. —		_					
				_					
				_					
	Concentration, D =	Depleti	on, RM = Reduced	d Ma	trix, MS =	= Masked	Sand Grains. <sup>2</sup> l		E Lining, M = Matrix.
	l Indicators:							Indicators for P	roblematic Hydric Soils³:
Histos			Polyvalue Be					2 cm Muck (	(A10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		Thin Dark Su					Coast Prairi	e Redox (A16) <b>(LRR K, L, R)</b>
I	Histic (A3)		Loamy Muck	-			-)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4) ed Layers (A5)		Loamy Gleye Depleted Ma					Dark Surfac	e (S7) <b>(LRR K, L)</b>
	ed Layers (A3) ed Below Dark Surf	ace (A1							elow Surface (S8) <b>(LRR K, L)</b>
	Dark Surface (A12)	acc (/ ti	Depleted Da			7)			urface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depre			. ,		_	nese Masses (F12) <b>(LRR K, L, R)</b>
_	Gleyed Matrix (S4)				,				loodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)								ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	ed Matrix (S6)							Red Parent	
	Surface (S7) (LRR R, I	MI RA 14	19B)					•	v Dark Surface (TF12)
			.52,					Other (Expla	ain in Remarks)
-	s of hydrophytic veg		and wetland hyd	rolo	gy must l	be preser	t, unless disturb	ed or problematic.	
Restrictive	Layer (if observed)	:							
	Type:		None			Hydric S	ioil Present?		Yes/_ No
	Depth (inches):								
Remarks:									
L									

Project/Site: Garnet	Cit	t <b>y/County:</b> Cato	, Cayuga		Sampling Date: 20	)20-June-18
Applicant/Owner: NextEra			State: NY		Sampling Point: W-JJ	B-01; UPL-1
Investigator(s): Jake Brillo, Mat	t Boscow		Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Hillslope		Local relief (concave, conv	ex, none):	Concave	Slope (%): 10-20
Subregion (LRR or MLRA):	RR L		Lat: 43.138816505	7 Long:	-76.5975396708	Datum: WGS84
Soil Map Unit Name: Ontario l	ວam, 8 to 14 percent s	lopes, eroded			NWI classification	on:
Are climatic/hydrologic condition	s on the site typical for	r this time of yea	ar? Yes _✓_ No	(If no	o, explain in Remarks.	)
Are Vegetation, Soil,	or Hydrology			al Circums	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology	naturally proble	ematic? (If needed,	explain an	y answers in Remark	s.)
SUMMARY OF FINDINGS – A	ttach site map sho	wing samplin	ng point locations, trai	nsects, in	nportant features,	etc.
Hydrophytic Vegetation Present?	? Yes	_No <b>/</b> _				
Hydric Soil Present?		 _No _ <b>_</b> _	Is the Sampled Area withi	n a Wetlan	nd? Ye	es No⁄_
			•			
Wetland Hydrology Present?	Yes		If yes, optional Wetland S	ite iD:	<u> </u>	
Remarks: (Explain alternative pro	ocedures here or in a s	separate report)				
TRC covertype is UPL.						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check	all that apply)			y Indicators (minimur	n of two required)
Surface Water (A1)	Wa	ater-Stained Lea	ves (B9)		ce Soil Cracks (B6)	
High Water Table (A2)	Aq	Juatic Fauna (B1	3)		age Patterns (B10)	
Saturation (A3)	Má	arl Deposits (B15	5)		Trim Lines (B16) eason Water Table (C2	)\
Water Marks (B1)	Ну	drogen Sulfide (	Odor (C1)	-	sh Burrows (C8)	-)
Sediment Deposits (B2)			eres on Living Roots (C3)	-	ation Visible on Aerial	Imagery (C9)
Drift Deposits (B3)		esence of Reduc			ed or Stressed Plants	
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)		orphic Position (D2)	( )
Iron Deposits (B5)		in Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial I	· · · · · · · · · · · · · · · · · · ·	her (Explain in R	Remarks)		topographic Relief (D4	4)
Sparsely Vegetated Concave	Surface (B8)			FAC-N	eutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No	Depth (	inches):	_		
Water Table Present?	Yes No _ <b>_</b> /	Depth (	inches):	Wetland I	Hydrology Present?	Yes No <b>∠</b>
Saturation Present?	Yes No _ <b>_</b> /_	Depth (	inches):	-		
(includes capillary fringe)		Jopan (		-		
	gauga manitaring u	all agrical photos	nrovious inspections) if	available:		
Describe Recorded Data (stream	gauge, monitoring we	ali, aeriai priotos	, previous inspections), ii d	avallable.		
Remarks:						

Number of Dominant Species   Number of Domi	vederation ose scientific flames of plants.	Absolute	Dominant	Indicator	Dominance Test workshe	eet:		
2.   Total Number of Dominant Species   2 (8)   3.		% Cover	Species?	Status	· ·	ecies That	0	(A)
Across All Strata:	-					int Species		
A.	-					•	2	(B)
Are OBL, FACW, or FAC:   Prevalence Index worksheet:   Total % Cover of:   Multiply By:   OBL species   0					Percent of Dominant Spe	ecies That	0	(A/R)
Prevalence Index worksheet:   Total % Cover of: Multiply By:					Are OBL, FACW, or FAC:			(A/B)
Total Scover of: Multiply By: OBL species 0					Prevalence Index worksh	neet:		
Sapling/Shrub Stratum (Plot size: 15 ft   1.	7				Total % Cover o	<u>f:</u>	Multiply	<u>By:</u>
Sapling/Shrub Stratum (Plot size:15 ft	/·		- Total Cau		OBL species	0	x 1 =	0
1.	Couling (Charle Charles (Districts 45.6)		_= TOTAL COV	er	FACW species	0	x 2 =	0
2.					FAC species	0	x 3 =	0
3.					FACU species	10	x 4 =	40
4. Column lotals 10 (A) 40 (B) Prevalence Index = B/A = 4  Hydrophytic Vegetation Indicators:  1. Rapid Test for Hydrophytic Vegetation 2. Prevalence Index is \$ 3.0!  4. Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) 1. Glycine max 4. Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes NoZ  1. Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) 1ndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants a like the present of the p	-				UPL species	0	x 5 =	0
Prevalence Index = B/A = 4	-				Column Totals	10	(A)	40 (B)
6.					Prevalence Ind	ex = B/A =	4	
1. Rapid Test for Hydrophytic Vegetation  7	-				Hydronhytic Vegetation I	ndicators:	<u> </u>	
Definitions of Vegetation Stratus	6						/egetation	1
Herb Stratum (Plot size: _5 ft )	7				· ·		egetation	
Herb Stratum (Plot size: _ 5 ft _)  1. Glycine max		0	= Total Cov	er				
1. Glycine max 2. Arctium minus 3.	Herb Stratum (Plot size: <u>5 ft</u> )						(Provide	sunnorting
2. Arctium minus 3.	1. Glycine max	40	Yes	NI				Supporting
3.	2. Arctium minus	10	Yes	FACU				(plain)
4	3.					, ,	•	•
5. Definitions of Vegetation Strata:  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) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:30 ft)  1	4.				-		-	8)
6	5.							
7	6.	-			_		more in	diameter at
8. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No _ ✓  No _ ✓ Total Cover  0 = Total Cover	7.							a.aecc. ac
greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No _✓  No _✓  Total Cover    O = Total Cover   No _✓	8.						_	DBH and
10								
size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:30 ft)  1					Herb – All herbaceous (n	on-woody)	plants, re	gardless of
12	-							
So					Woody vines – All woody	vines grea	ter than 3	.28 ft in
Woody Vine Stratum (Plot size:30 ft)       Hydrophytic Vegetation Present? Yes No _ ✓         2		50	= Total Cov	or	height.			
1	Woody Vino Stratum (Blot size: 30 ft )		_ TOTAL COV	CI	Hydrophytic Vegetation	Present? \	/es N	No _ <b>/</b> _
2								
3	-							
4	-				•			
0 = Total Cover								
	4.							
Remarks: (Include photo numbers here or on a separate sheet.)			_= Total Cov	er				
	Remarks: (Include photo numbers here or on a separa	ate sheet.)						
Active agricultural field	Active agricultural field							

Profile Des	scription: (Describe	to the o				indicato	r or confirm the	absence of inc	dicators.)
Depth	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	re	Remarks
0 - 10	10YR 3/3	100					Loam	า	
10 - 18	10YR 3/4	70	5YR 4/6	30	C	M	Clay Lo	am	
								-	
								_	
	-						-		
	-								
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup>	Location: PL =	Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR	R, MLRA 149B)		luck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic E	pipedon (A2)		Thin Dark Su						Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Loamy Muck						lucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	gen Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)				urface (S7) <b>(LRR K, L)</b>
Stratifie	ed Layers (A5)		Depleted Ma	trix (l	<del>-</del> 3)				
Deplete	ed Below Dark Surf	ace (A1	1) Redox Dark S	Surfa	ce (F6)				ue Below Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Da	rk Su	rface (F7)	)			ark Surface (S9) (LRR K, L)
Sandy I	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				anganese Masses (F12) (LRR K, L, R)
Sandy	Gleyed Matrix (S4)								ont Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)								Spodic (TA6) (MLRA 144A, 145, 149B)
-	ed Matrix (S6)								rent Material (F21)
	urface (S7) <b>(LRR R, I</b>	MI RA 14	19R)					•	nallow Dark Surface (TF12)
bank sk	arrace (37) (Erricity)	VILIO ( I	.55,					Other (	Explain in Remarks)
3Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must b	e preser	nt, unless disturb	ed or problen	natic.
Restrictive	Layer (if observed)	):							
	Type:		None			Hydric	Soil Present?		Yes No⁄_
	Depth (inches):								
Remarks:									
Refusal du	e to coarse fragme	nts							
	· ·								
]									

Project/Site: Garnet	City/County:_ W	eedsport, Cayuga	Sampling Date:	2020-June-18
Applicant/Owner: NextEra		State: NY	Sampling Point: W	-JJB-02; PFO-1
Investigator(s): Jake Brillo, Ma	att Boscow	Section, Township,	Range:	
Landform (hillslope, terrace, etc	c.): Depression	Local relief (concave, conv	/ex, none): Concave	Slope (%): 1-10
Subregion (LRR or MLRA):	LRR L	Lat: 43.130172039	24 Long: -76.6064070538	Datum: WGS84
Soil Map Unit Name: Muck, d	leep		NWI classifica	tion:
Are climatic/hydrologic condition	ns on the site typical for this time of	year? Yes <u></u> ✓ No	(If no, explain in Remark	s.)
Are Vegetation, Soil,	or Hydrology significantly	disturbed? Are "Norm	al Circumstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally pro	blematic? (If needed,	explain any answers in Remar	·ks.)
SUMMARY OF FINDINGS –	Attach site map showing samp	ling point locations, tra	nsects, important feature	s, etc.
Hydric Soil Present?	Yes <u>√</u> No	Is the Sampled Area withi	in a Watland? V	os / No
		•		es/_ No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	V-JJB-02
TRC covertype is PFO.				
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o	of one is required; check all that apply	Δ	Secondary Indicators (minimu	um of two required)
Surface Water (A1)	Water-Stained L	eaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (l	B13)	Drainage Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (E	315)	_✓ Moss Trim Lines (B16) Dry-Season Water Table (0	~2)
Water Marks (B1)	<u></u> Hydrogen Sulfid		Crayfish Burrows (C8)	-2)
Sediment Deposits (B2)		pheres on Living Roots (C3)	Saturation Visible on Aeria	al Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Red	luction in Tilled Soils (C6)	Stunted or Stressed Plants	s (D1)
Algai Mat of Crust (B4) Iron Deposits (B5)	Recent from Red Thin Muck Surfa		✓ Geomorphic Position (D2)	
Inundation Visible on Aerial			Shallow Aquitard (D3)	
Sparsely Vegetated Concave		· · · · · · · · · · · · · · · · · · ·	Microtopographic Relief (I	D4)
1=			<u>✓</u> FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	·	th (inches):	-	
Water Table Present?	Yes _ V No Dept	th (inches): 20	Wetland Hydrology Present?	Yes No
Saturation Present?	Yes No Dept	th (inches):	_	
(includes capillary fringe)				
Remarks:	m gauge, monitoring well, aerial phoi	tos, previous inspections), if	available:	

<u>rree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S		7	(A)
1. Acer rubrum	25	Yes	FAC	Are OBL, FACW, or FAC			
2. Fraxinus pennsylvanica	10	Yes	FACW	Total Number of Domi	nant Species	7	(B)
3. Fraxinus nigra	10	Yes	FACW	Across All Strata:			`´
i				Percent of Dominant S - Are OBL, FACW, or FAC		100	(A/B)
5.				Prevalence Index work			
j				Total % Cover		Multiply I	Bv:
7				- OBL species	50	x 1 =	50
	45	= Total Cov	er	FACW species	130	x 2 =	260
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	25	x 3 =	75
. Lindera benzoin	30	Yes	FACW	FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	205	_	385 (B)
i	-			Prevalence Ir		(A) _	363 (0)
	-					1.9	
5.				Hydrophytic Vegetation			
				1- Rapid Test for I		egetation/	
	30	= Total Cov	er	2 - Dominance Te			
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Inc			
. Onoclea sensibilis	50	Yes	FACW	4 - Morphological	•	-	supporting
2. Saururus cernuus	30	Yes	OBL	data in Remarks or on	•	=	
3. Impatiens capensis	30	Yes	FACW	Problematic Hydr			
4. Symplocarpus foetidus	20	No	OBL	¹Indicators of hydric so		-	gy must be
-			OBL	present, unless disturb		matic	
-				Definitions of Vegetation			
5.				Tree - Woody plants 3			liameter a
7.				breast height (DBH), re			D
3.	- ——			Sapling/shrub - Woody			вн and
9	- ——			greater than or equal t			ardlass of
10				Herb – All herbaceous size, and woody plants	-		aruless or
l1				Woody vines – All wood			28 ft in
12				height.	ay viries grea	ter triair 5	20 11 111
	130	= Total Cov	er				
Noody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	Yes N	0
I							
2							
3.							
4.							
	0	= Total Cov	er				

	-	to the o	-			indicato	r or confirm the	bsence of indicators.)	
Depth	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%_	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	Remarks	
0 - 8	10YR 2/1	80	10YR 4/6	20	C	M	Silt Loa	າ	
8 - 16	10YR 2/1	100					Clay Loa	n	
16 - 24	5YR 5/3	100					Clay		
							-		
				_					
				_				<del></del>	-
				_					
									_
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup>	ocation: PL = Pore Lining, M = Matrix.	
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils	3:
Histoso	ol (A1)		Polyvalue Be	low S	Surface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 14	49B)
Histic E	pipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L	
	listic (A3)		Loamy Muck	-		(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR	K, L, R)
	gen Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)	
	ed Layers (A5)		Depleted Ma					Polyvalue Below Surface (S8) <b>(LRR</b>	K, L)
	ed Below Dark Surf	ace (A1						Thin Dark Surface (S9) <b>(LRR K, L)</b>	
	Dark Surface (A12)		Depleted Da			)		Iron-Manganese Masses (F12) (LRF	R K, L, R)
	Mucky Mineral (S1)		Redox Depre	essior	ıs (F8)			Piedmont Floodplain Soils (F19) <b>(M</b>	
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 14	
_	Redox (S5)							Red Parent Material (F21)	
Strippe	ed Matrix (S6)							Very Shallow Dark Surface (TF12)	
Dark S	urface (S7) <b>(LRR R, I</b>	MLRA 14	19B)					Other (Explain in Remarks)	
3Indicators	s of hydrophytic veg	getation	and wetland hyd	rolog	y must b	e preser	nt, unless disturb	•	
	Layer (if observed)		<u> </u>	0	,		,		
	Type:	,-	None			Hydric	Soil Present?	Yes No	
	Depth (inches):		None			liyanc	Son i reserie.	163 110	
Dama aulum	Deptil (iliciles).	<del></del> -						·	
Remarks:									
1									
1									
1									
1									

Project/Site: Garnet		City/County: Wee	dsport, Cayuga	Sampling Date: 2020-June-18			
Applicant/Owner: NextEra			State: NY		Sampling Point: W-JJ	B-02; UPL-1	
Investigator(s): Jake Brillo, Ma	att Boscow		Section, Township,	Range:			
Landform (hillslope, terrace, etc	:.): Hillslope		Local relief (concave, conv	ex, none):_	Concave	Slope (%): 10-20	
Subregion (LRR or MLRA):	LRR L		Lat: 43.130193790	5 <b>Long:</b>	-76.6064221413	Datum: WGS84	
Soil Map Unit Name: Ontario	loam, 14 to 20 perc	ent slopes, eroded			NWI classification	on:	
Are climatic/hydrologic conditio	ns on the site typica	l for this time of yea	ar? Yes <u></u> ✓ No	(If no	, explain in Remarks.	)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circumst	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology _	naturally proble	ematic? (If needed,	explain any	y answers in Remarks	5.)	
SUMMARY OF FINDINGS –			ng point locations, trar	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Presen		No	 				
Hydric Soil Present?		No _ <b>_</b> _	Is the Sampled Area withi	n a Wetland	d? Ye	s No⁄_	
Wetland Hydrology Present?	Yes _	No _ <b>_</b> _	If yes, optional Wetland S	ite ID:			
TRC covertype is UPL.							
Wetland Hydrology Indicators: Primary Indicators (minimum of the control of the c	    	Water-Stained Lea Aquatic Fauna (B1: Marl Deposits (B1: Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) 5) Odor (C1) heres on Living Roots (C3) hed Iron (C4) tion in Tilled Soils (C6) he (C7)	Secondary Indicators (minimum of two requires  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)			
Inundation Visible on Aerial Sparsely Vegetated Concave		Other (Explain in R	Remarks)		opographic Relief (D4	1)	
sparsely vegetated contavi	c surface (DO)			FAC-Ne	eutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No _	✓ Depth (	inches):	_[			
Water Table Present?	Yes No _	<u>✓</u> Depth (	inches):	Wetland H	lydrology Present?	Yes No	
Saturation Present?	Yes No _	✓ Depth (	(inches):				
(includes capillary fringe)				-			
Describe Recorded Data (strea	m gauge, monitoring	g well, aerial photos	s, previous inspections). if a	available:			
		, ,	,,,				
Remarks:							

				T			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant S		0	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domin	ant species	1	(B)
3.				Percent of Dominant Sp	ocios That		
4				Are OBL, FACW, or FAC:		0	(A/B)
5				Prevalence Index works			
6				Total % Cover		Multiply	Rv.
7				OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species	0	x3=	0
1				FACU species	0	x 4 =	0
2.				UPL species	70	-	350
3.				_ · _		x 5 = _	
4.				Column Totals	70	(A) _	350 (B)
5.				Prevalence In	dex = B/A =	5	<del></del>
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for H	lydrophytic V	egetation/	1
	0	= Total Cov	or	2 - Dominance Tes			
Herb Stratum (Plot size: 5 ft )		-	CI	3 - Prevalence Inde	ex is $\leq 3.0^1$		
1 7	70	Yes	UPL	4 - Morphological			supporting
2.		103	01 L	data in Remarks or on a			
3.				Problematic Hydro			•
				¹Indicators of hydric soi			gy must be
4.				present, unless disturbe		matic	
5				Definitions of Vegetatio			
6				Tree – Woody plants 3 i			diameter at
7				breast height (DBH), reg		_	
8				Sapling/shrub – Woody			DBH and
9				greater than or equal to			
10				Herb – All herbaceous (			gardless of
11				size, and woody plants			20 ft :
12				Woody vines – All wood	y vines great	ter than 3	.28 IL IN
	70	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation	n Present? \	Yes N	No <u>~</u>
1							
2							
3.							
4.							
	0	= Total Cov	er				
Demonstrat (In all rade in bate in constraint base on an expense)		_					
Remarks: (Include photo numbers here or on a separat	e sneet.)						
Active agricultural field							

		to the de				indicato	r or confirm the	absence of indicators.)
Depth	Matrix		Redox					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 6	7.5YR 4/3	100		_			Loam	
6 - 18	5YR 4/3	100		_			Loam	
				_				
				_				
				_				<del></del>
				_				
				_				
				_				
				_				
				_				
				_				
<u>1</u> Type: C = C	Concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. 2	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	(A1)		Polyvalue Bel	ow S	urface (S	88) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark Sur	face	(S9) (LRF	R R, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky	/ Mir	eral (F1)	(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed					Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Mat	rix (	<del>-</del> 3)			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surf							Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar			)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	ledox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	/ILRA 149	9B)					Other (Explain in Remarks)
31n disators	of budsophytic you	otation	and watland byda	مامم	v must b	0 05000	at uplace dicturb	•
-			and wettand nyur	olog	y must b	le preser	it, uriless disturt	ped or problematic.
	_ayer (if observed): 					l	5 11 B 12	V
	Type:		None			Hydric	Soil Present?	Yes No
	Depth (inches):							
Remarks:								
Refusal due	to coarse fragme	nts						

Project/Site: Garnet	City/County: Cato	o, Cayuga	Sampling Date: 2020-June-19		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJ	B-03; PEM-1	
Investigator(s): Jake Brillo, Mat	it Boscow	Section, Township, Range	:		
Landform (hillslope, terrace, etc.)	): Depression	Local relief (concave, convex, no	ne): Concave	Slope (%): 1-10	
Subregion (LRR or MLRA): $\_$ L	RR L	Lat: 43.144895942 Lo	ong: -76.6213424318	Datum: WGS84	
Soil Map Unit Name: Palmyra	gravelly loam, 8 to 15 percent slopes		NWI classification	n:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye		(If no, explain in Remarks.)	)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Normal Circ	umstances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, explai	n any answers in Remarks	i.)	
	Attach site map showing sampli	ng point locations, transects	s, important features,	etc.	
Hydrophytic Vegetation Present					
Hydric Soil Present?	Yes No	Is the Sampled Area within a We	etland? Yes	No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-J	JB-03	
TRC covertype is PEM.					
Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial	Presence of Redu Recent Iron Reduc Thin Muck Surface	aves (B9) Si Di M Di Odor (C1) Cr Ced Iron (C4) Sa cet Iron (C4) St cet (C7) Semarks) Semarks)	ndary Indicators (minimum Irface Soil Cracks (B6) rainage Patterns (B10) rainage Patterns (B16) ry-Season Water Table (C2 rayfish Burrows (C8) Ituration Visible on Aerial unted or Stressed Plants ( eomorphic Position (D2) nallow Aquitard (D3)	) magery (C9) D1)	
Sparsely Vegetated Concave			icrotopographic Relief (D4 \C-Neutral Test (D5)	)	
Field Observations:		<u></u>	ic recutal lest (DJ)		
Surface Water Present?	Vos No / Danth	(inches):			
	·	(inches):		V N	
Water Table Present?	Yes No Depth	(inches): Wetla	and Hydrology Present?	Yes No	
Saturation Present?	Yes No Depth	(inches): 0			
(includes capillary fringe)					
Describe Recorded Data (strean Remarks:	n gauge, monitoring well, aerial photo	s, previous inspections), if availab	ole:		
THE POS					

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	Species That	3	(A)
. Fraxinus pennsylvanica	10	Yes	FACW	Are OBL, FACW, or FAC  Total Number of Domi  Across All Strata:		4	(B)
				Percent of Dominant S  Are OBL, FACW, or FAC		75	(A/B)
	<del></del>			Prevalence Index work	sheet:		
5.	<del></del>			Total % Cover	of:	Multiply	<u>Ву:</u>
'. <sub></sub>				- OBL species	0	x 1 =	0
	10	_= Total Cov	er	FACW species	105	x 2 =	210
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species	55	x 3 =	165
. Populus tremuloides	10	Yes	FACU	FACU species	10	x 4 =	40
				UPL species	0	x 5 =	0
B				Column Totals	170	(A)	415 (B)
l					ndex = B/A =	2.4	(5)
i				Hydrophytic Vegetatio			
5.				, , ,		logotation	
7				1- Rapid Test for 2 - Dominance Te		regetation	
	10	= Total Cov	er	✓ 2 - Dominance re			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )		=				1 (Duay dala	
. Onoclea sensibilis	75	Yes	FACW	4 - Morphologica - data in Remarks or on			supporting
2. Equisetum arvense	40	Yes	FAC	Problematic Hyd		-	nlain)
3. Phragmites australis	20	No	FACW	-			
1. Eutrochium purpureum	15	No	FAC	Indicators of hydric so present, unless disturb		-	gy must be
-				Definitions of Vegetati		matic	
-				Tree – Woody plants 3		r moro in a	diameter a
7				breast height (DBH), re			ilameter a
				Sapling/shrub - Wood			)BH and
				greater than or equal			) DIT GITG
·				Herb – All herbaceous			ardless of
0				size, and woody plants	-		54. 4.055 0.
11				Woody vines – All woo			28 ft in
2				height.	-, 8		
	150	_= Total Cov	er	Hydrophytic Vegetation	n Procent2	Voc / N	lo.
Noody Vine Stratum (Plot size: <u>30 ft</u> )				Tiyuropriyac vegetada	JII FTESEIIL:	162 <u>^</u> 10	
l				-			
2				=			
3				-			
4	0	= Total Cov	er				

	-	to the	-			indicato	r or confirm the a	bsence of indicators.)
Depth	Matrix		Redo	x Fea	tures			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 9	10YR 2/2	85	7.5YR 4/4	15	C	M/PL	Loam	
9 - 20	10YR 5/2	90	7.5YR 5/6	10	С	М	Sand	
		- —					_	
		- —		· —				
				. —				
		- —						
		- —		. —				
		- —						
¹Type: C = 0	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	atrix, MS	= Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Polyvalue E	Below	Surface (	S8) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic E	pipedon (A2)		Thin Dark S	Surfac	e (S9) <b>(LR</b>	R R, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mud				L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)
	d Layers (A5)		_ <b>∠</b> Depleted M					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted D			7)		Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Dep	ressio	ons (F8)			Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, I</b>	MLRA 1	49B)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must l	be preser	nt, unless disturbe	•
Restrictive	Layer (if observed)	: :			-	T .		·
	Type:		None			Hydric 9	Soil Present?	Yes/_ No
	Depth (inches):					,		.55
-	Deptir (inches).					1		
Remarks:								



Project/Site: Garnet	City/County: Cato	o, Cayuga	Sampling Da	Sampling Date: 2020-Nov-04			
Applicant/Owner: NextEra		State: NY	Sampling Poir	nt: W-JJB-03; PEM-1			
Investigator(s): Jake Brillo, Rya	an Snow	Section, Township,	Range:				
Landform (hillslope, terrace, etc	c.): Agricultural Field	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1			
Subregion (LRR or MLRA):	LRR L	Lat: 43.144157761	7 Long: -76.60589446	72 <b>Datum:</b> WGS84			
Soil Map Unit Name: Lamson	ı mucky fine sandy loam		NWI clas	sification:			
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumstances" preser	nt? Yes 🟒 No			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in R	temarks.)			
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, trar	sects, important fea	tures, etc.			
Hydrophytic Vegetation Presen		<u> </u>	· · ·				
, , ,		Landa a Camanda di Amana misiba	14/-4/ 12	V ( N-			
Hydric Soil Present?	Yes No	Is the Sampled Area withi		Yes No			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te ID:	W-JJB-03			
Remarks: (Explain alternative p	rocedures here or in a separate report	)					
1							
I							
TRC covertype is PEM.							
HYDROLOGY							
	_			_			
Wetland Hydrology Indicators:							
Primary Indicators (minimum o	of one is required; check all that apply)		Secondary Indicators (m	ninimum of two required)			
Sourie de Mateur (Ad)	Water Stairs all a	(DO)	Surface Soil Cracks (I	B6)			
Surface Water (A1)	Water-Stained Lea		Drainage Patterns (B	310)			
High Water Table (A2)	Aquatic Fauna (B1		Moss Trim Lines (B16	5)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Him Lines (B10) Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)				
Sediment Deposits (B2)	•	heres on Living Roots (C3)	B) — Crayhari Burrows (Co) _✓ Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed	• •			
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)	✓ Geomorphic Position				
Iron Deposits (B5)	Thin Muck Surface	e (C7)	· ·				
Inundation Visible on Aerial	l Imagery (B7) Other (Explain in I	Remarks)	Shallow Aquitard (D3				
Sparsely Vegetated Concave	e Surface (B8)		✓ Microtopographic Re				
<u></u>			FAC-Neutral Test (D5	)			
Field Observations:	Vice No. 7	Construction					
Surface Water Present?	•	(inches):					
Water Table Present?	Yes No Depth	(inches):	Wetland Hydrology Pres	sent? Yes No			
Saturation Present?	Yes No Depth	(inches): 0					
(includes capillary fringe)							
	m gauge, monitoring well, aerial photo	s previous inspections) if	vailahla.				
Describe Recorded Data (stream	m gauge, monitoring well, aerial prioto.	s, previous irispections, ire	valiable.				
Remarks:							

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species	That 2	(A)
1				Are OBL, FACW, or FAC:		
2.				Total Number of Dominant Sp	ecies 2	(B)
3.				Across All Strata:		`
4.				Percent of Dominant Species	<sup>That</sup> 100	(A/B)
5.				Are OBL, FACW, or FAC:		`
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	By:
	0	= Total Cov	or	OBL species 65	x 1 =	65
Capling/Chrush Stratum (Plat size) 15 ft		10tai Cov	CI	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 50	x 3 =	150
1.				FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				Column Totals 115	(A)	215 (B)
4				Prevalence Index = I		
5				Hydrophytic Vegetation Indica		
6						
7				1- Rapid Test for Hydrop	-	ı
	0	= Total Cov	er	✓ 2 - Dominance Test is >5		
Herb Stratum (Plot size:5 ft)		_		3 - Prevalence Index is ≤		
1. Euthamia graminifolia	50	Yes	FAC	4 - Morphological Adapta		supporting
2. <i>Lythrum salicaria</i>	30	Yes	OBL	data in Remarks or on a separ		lain)
3. Juncus effusus	20	No	OBL	Problematic Hydrophytic	-	-
4. Scirpus atrovirens	15	No	OBL	<sup>1</sup> Indicators of hydric soil and v present, unless disturbed or p	-	gy must be
				<del></del>		
6.				Definitions of Vegetation Strat		d:
7.				Tree – Woody plants 3 in. (7.6 breast height (DBH), regardles		diameter at
-				Sapling/shrub – Woody plants	-	DPU and
8				greater than or equal to 3.28 f		эвн ани
9.				Herb – All herbaceous (non-w		gardless of
10				size, and woody plants less th		gai diess oi
11				Woody vines – All woody vines		28 ft in
12				height.	greater than 5.	.2010111
	115	_= Total Cov	er			
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation Prese	nt? Yes N	NO
1						
2						
3.						
4.						
	0	= Total Cov	er			
Barrandar (tarahada ahada aranda aranda aranda aranda aranda aranda aranda aranda aranda aranda aranda aranda a	1+ >					
Remarks: (Include photo numbers here or on a separat	e sneet.)					

Profile Des	cription: (Describe	to the	depth needed to	docu	ment the	indicato	or confirm the	absence of indicators	5.)
Depth	Matrix		Redo	x Fea	tures	<u></u>			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Te	xture	Remarks
0 - 20	7.5YR 3/2	90	7.5YR 4/6	10	С	M/PL	Sandy	Clay Loam	
	•		-						
		_		_					
				. —					
		- —							
								<del></del> .	
	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	trix, MS =	= Masked	Sand Grains. 2	Location: PL = Pore L	
Hydric Soil			D-1 1 =	· - 1 ·	c	(60) (1.55	D 141 D4 4 400;	Indicators for Pro	blematic Hydric Soils³:
Histoso			Polyvalue B						10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark S					Coast Prairie F	Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3) en Sulfide (A4)		Loamy Mud Loamy Gley	-			-)	•	eat or Peat (S3) <b>(LRR K, L, R)</b>
	ed Layers (A5)		Depleted M					Dark Surface (	
	d Below Dark Surf	ace (A1							ow Surface (S8) (LRR K, L)
	ark Surface (A12)	•	Depleted D			7)			face (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)		Redox Dep	ressic	ns (F8)				se Masses (F12) (LRR K, L, R)
Sandy 0	Gleyed Matrix (S4)								odplain Soils (F19) (MLRA 149B)
Sandy F	Redox (S5)								(TA6) (MLRA 144A, 145, 149B)
Strippe	d Matrix (S6)							Red Parent Ma	Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, N</b>	ИLRA 1	49B)					Other (Explain	
31	. 6						6 l	•	The Remarks)
			n and wetland ny	arolo	gy must i	oe preser I	it, uniess disturb	ed or problematic.	_
Restrictive	Layer (if observed)	•	Nimm			l books of	: :! D		Ver ( Ne
	Type:		None			Hyarics	ioil Present?		Yes No
-	Depth (inches):								
Remarks:									



Photo of Sample Plot



Project/Site: Garnet	City/County: Car	to, Cayuga	Sampling Date: 202	Sampling Date: 2020-June-19			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB	3-03; PFO-1			
Investigator(s): Jake Brillo, N	Matt Boscow, Jacob brillo	Section, Township,	Range:				
Landform (hillslope, terrace, e	etc.): Depression	Local relief (concave, conv	vex, none):_ Flat	Slope (%): 0-1			
Subregion (LRR or MLRA):	LRR L	Lat: 43.140733824	2 Long: -76.6274522525	Datum: WGS84			
Soil Map Unit Name: Muck,	, deep		NWI classification	n:			
Are climatic/hydrologic condit	ions on the site typical for this time of y	rear? Yes _✓_ No	(If no, explain in Remarks.)				
Are Vegetation, Soil	, or Hydrology significantly d	listurbed? Are "Norm	al Circumstances" present?	Yes No			
Are Vegetation, Soil	,   or Hydrology naturally prol	blematic? (If needed,	explain any answers in Remarks.	.)			
SUMMARY OF FINDINGS	<ul> <li>Attach site map showing sampl</li> </ul>	ling point locations, trai	nsects, important features, o	etc.			
Hydrophytic Vegetation Prese	ent? Yes No	[					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes	No			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID: W-JJ	B-03			
Remarks: (Explain alternative	procedures here or in a separate repor	rt)					
TRC covertype is PFO.							
HYDROLOGY							
Wetland Hydrology Indicators	s.						
,	o. of one is required; check all that apply	1	Secondary Indicators (minimum	of two required)			
Timary malcacors (miniman	or one is required, effect all trial uppry	1	Surface Soil Cracks (B6)	or two required;			
Surface Water (A1)	Water-Stained Le		Drainage Patterns (B10)				
✓ High Water Table (A2)	Aquatic Fauna (B		✓ Moss Trim Lines (B16)				
Saturation (A3) Water Marks (B1)	Marl Deposits (B Hydrogen Sulfide		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		oheres on Living Roots (C3)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Oxidized Kilizos	•	Saturation Visible on Aerial Ir	magery (C9)			
Algal Mat or Crust (B4)		uction in Tilled Soils (C6)	Stunted or Stressed Plants (D	01)			
Iron Deposits (B5)	Thin Muck Surfa		✓ Geomorphic Position (D2)				
Inundation Visible on Aeri	<del></del>	• •	Shallow Aquitard (D3)				
Sparsely Vegetated Conca			Microtopographic Relief (D4)				
F. 1101			✓ FAC-Neutral Test (D5)				
Field Observations: Surface Water Present?	Vos No / Dont	h (inchos):					
Water Table Present?	·	h (inches):  h (inches):  8	Wetland Hydrology Present?	Yes No			
Saturation Present?	·	· · · ·	- Wedand Hydrology Present?	163110			
	Yes _ \( \sum_ \) No Depti	h (inches):	-				
(includes capillary fringe)				<u> </u>			
Describe Recorded Data (stre	eam gauge, monitoring well, aerial photo	os, previous inspections), if	available:				
Remarks:							

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant S		3	(A)
1. Acer saccharinum	50	Yes	FACW	Are OBL, FACW, or FAC:			(A)
Acer rubrum	50	Yes	FAC	Total Number of Domin Across All Strata:	ant Species	3	(B)
I.				Percent of Dominant Sp - Are OBL, FACW, or FAC:	ecies That	100	(A/B)
5.				Prevalence Index works	heet:	-	
5.				Total % Cover		Multiply I	Rv.
7				- OBL species	110	x 1 =	110
	100	= Total Cove	r	FACW species	50	x 2 =	100
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	50	x 3 =	150
				FACU species	0	x 4 =	0
				UPL species	0	x5=	0
3.				Column Totals		_	
l	-			_	210	(A) _	360 (B)
5.				Prevalence In		1.7	<del></del>
5.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for H	ydrophytic \	egetation/	
· -	0	= Total Cove	r	2 - Dominance Tes			
Herb Stratum (Plot size:5 ft)		-	'	3 - Prevalence Inde	ex is $\leq 3.0^{1}$		
1. Saururus cernuus	90	Yes	OBL	4 - Morphological			supporting
2. Symplocarpus foetidus	20	No No	OBL	data in Remarks or on a			
,			OBL	Problematic Hydro			
3.				<sup>1</sup> Indicators of hydric soi			gy must be
1				present, unless disturbe		matic	
5.				Definitions of Vegetatio			
5				Tree – Woody plants 3 ii			liameter a
7				breast height (DBH), reg			
B				Sapling/shrub - Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (			ardless of
11				size, and woody plants			00 ft :
12				Woody vines – All wood	y vines grea	ter than 3	28 ft in
	110	= Total Cove	r	height.			
Noody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present?	∕es <u> </u>	0
·							
D				.			
3.				.			
4	0	= Total Cover	r				

Profile Desc	cription: (Describe to	o the d	epth needed to d	ocun	nent the i	ndicato	r or confirm the	absence of indicator	s.)
Depth	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Te	xture	Remarks
0 - 20	10YR 2/1	95	7.5YR 4/4	5	C	M	Mucky	Silt Loam	
				_					
				_				_	
		_		_					_
				_					
				_					
				_					-
				_			-		
				_					
				_					
				_					
				_					
¹Type: C = C	Concentration, D = D	Pepletio	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. 2	Location: PL = Pore l	ining, M = Matrix.
Hydric Soil I	ndicators:							Indicators for Pro	blematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A	10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark Su	rface	(S9) (LRF	R, MLR	A 149B)		Redox (A16) <b>(LRR K, L, R)</b>
Black Hi	stic (A3)		Loamy Muck	y Mir	eral (F1)	(LRR K, I	_)		eat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye					Dark Surface	
	d Layers (A5)		Depleted Ma						ow Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A11						-	face (S9) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Da			)			ese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				odplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)								(TA6) <b>(MLRA 144A, 145, 149B)</b>
_	edox (S5)							Red Parent M	
Stripped	d Matrix (S6)								Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b> l	LRA 14	9B)					Other (Explain	
3Indicators	of hydrophytic vege	tation	and wetland hyd	വിവര	v must h	nreser	nt unless disturb	ned or problematic	
-	_ayer (if observed):	cacion	ana wedana nya	0108	y mast b	I	ic, arriess distars	rea or problematic.	
	Type:		None			⊎vdric	Soil Present?		Yes No
	* .		None			пуштс	3011 Fresents		res NO
	Depth (inches):								
Remarks:									

Project/Site: Garnet	City/County: Con-	quest, Cayuga County	Sampling Date: 2020-Nov-05
Applicant/Owner: NextEra		State: New York	Sampling Point: W-JJB-03; PFO-2
Investigator(s): Brian Stoos, F	Ryan Snow, Jacob brillo	Section, Township, Range:	
Landform (hillslope, terrace, etc	c.): Swamp	Local relief (concave, convex, none	e): Concave Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L	Lat: 43.1533681 Lon	g: -76.6010139
Soil Map Unit Name: Muck, o	leep		NWI classification: PFO
Are climatic/hydrologic conditio	ons on the site typical for this time of ye	ar? Yes No (If	no, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology significantly dis	sturbed? Are "Normal Circur	nstances" present? Yes 🟒 No
Are Vegetation, Soil	, or Hydrology naturally probl	lematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Hydrophytic Vegetation Preser Hydric Soil Present?		ng point locations, transects,	
•	Yes 🟒 No	¦ '	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-JJB-03
TRC covertype is PFO.			
HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of	of one is required; check all that apply)	Second	lary Indicators (minimum of two required)
		Suri	face Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	_ <u>√</u> Water-Stained Lea Aquatic Fauna (B1	Dra	inage Patterns (B10)
Figit Water Table (A2) Saturation (A3)	Aquatic Fauria (B1	✓ Mos	ss Trim Lines (B16)
Water Marks (B1)	Man Deposits (B): Hydrogen Sulfide	Odor (C1) — Dry	-Season Water Table (C2)
Sediment Deposits (B2)		neres on Living Roots (C3) — Cra	yfish Burrows (C8)
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduc	rtion in Tilled Soils (C6)	emorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	e (C7)	llow Aquitard (D3)
<u>✓</u> Inundation Visible on Aeria			rotopographic Relief (D4)
Sparsely Vegetated Concav	e Surface (B8)		-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No <u>_</u> Depth	(inches):	
Water Table Present?	Yes No Depth	(inches): Wetlan	d Hydrology Present? Yes No
Saturation Present?	Yes _ <b>✓</b> _ No Depth	(inches): 8	
(includes capillary fringe)			
	m gauge, monitoring well, aerial photos	s previous inspections) if available	
	m gauge, monitoring weil, aeriai prioto.	s, previous inspections, il avaliable	<del>.</del>
Remarks:			

	Dominant Species?	Indicator Status	Dominance Test worksheet Number of Dominant Spec		5	(4)
60	Yes	FACW	Are OBL, FACW, or FAC:			(A)
20	Yes	FAC	Total Number of Dominant	Species	5	(B)
15	No	FACW				
5	No	FAC		es That	100	(A/B)
				>†·		
					Multiply F	Rv.
				20		20
100	= Total Cov	er			_	260
						75
20	Yes	FACW				0
			· -			0
			· ·			355 (B)
					_	333 (b)
			-			
			' ' ' '		ogotation	
			·		egetation	
20	= Total Cov	er				
					(Provide o	unnorting
15	Yes	OBL	. •	•		upporting
15	Yes	FACW				olain)
10	No	FACW				
5	No	OBL				y mast be
5	No	FACW	<u> </u>	•		
5	No	FACW	•		more in d	iameter a
					_	BH and
			greater than or equal to 3.2	28 ft (1 m	tall.	
						ardless of
			size, and woody plants less	than 3.2	3 ft tall.	
			-	nes great	er than 3.2	28 ft in
55	= Total Cov	er	height.			
	-		Hydrophytic Vegetation Pr	esent? Y	es 🟒 No	o
			· 1			
		20 Yes  15 No  5 No  100 = Total Cove  20 Yes  20 = Total Cove  15 Yes  15 Yes  10 No  5 No  5 No  5 No	60 Yes FACW 20 Yes FAC 15 No FACW 5 No FAC  100 = Total Cover  20 Yes FACW  20 Yes FACW  21	Are OBL, FACW, or FAC: Total Number of Dominant Across All Strata:	Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species 20 FACW species 130 FAC species 25 FACU species 0 UPL species 0 UPL species 0 Column Totals 175 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic V  2 - Dominance Test is >50%  3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ data in Remarks or on a separate sh Problematic Hydrophytic Veget  10 No FACW 10 No FACW 10 No FACW 11 Number of Dominant Species Across All Strata: Percent of Dominant Species Across All Strata: Percent of Dominant Species Across All Strata: Percent of Dominant Species Across All Strata:  Total % Cover of:  OBL species 20 FACW species 0 Column Totals 175 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic V  2 - Dominance Test is >50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ data in Remarks or on a separate sh Problematic Hydrophytic Veget 1Indicators of hydric soil and wetland present, unless disturbed or probler Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or breast height (DBH), regardless of he Sapling/shrub – Woody plants less the greater than or equal to 3.28 ft (1 m) Herb – All herbaceous (non-woody) size, and woody plants less than 3.28 Woody vines – All woody vines great height.	Are OBL, FACW, or FAC:  Total Number of Dominant Species  Solution of FACW  Total Number of Dominant Species  Solution of FACW  Total Number of Dominant Species  Solution of FACW  Factor of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply E  OBL species  20

		to the d				ndicato	or confirm the	absence of indicato	ors.)
Depth	Matrix		Redox						
(inches)	Color (moist)	%_	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 5	10YR 2/2	100					Fibric Silt Loam		
5 - 9	10YR 2/2	100					Silty Clay		
9 - 16	10YR 6/2	60	7.5YR 5/8	40	D	M	Sandy Clay		
	-								
				_				_	
	-								
				_					
				_					
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. 2	Location: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Pr	roblematic Hydric Soils³:
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) <b>(LRR</b> I	R, MLRA 149B)	2 cm Muck (	A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLR	A 149B)		e Redox (A16) <b>(LRR K, L, R)</b>
Black H	listic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, I	_)	· <del></del>	Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		Loamy Gleye					Dark Surface	
	ed Layers (A5)		Depleted Ma					<del></del>	elow Surface (S8) (LRR K, L)
	ed Below Dark Surf	ace (A1							urface (S9) (LRR K, L)
l ——	ark Surface (A12)		Depleted Da						nese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	essior	ıs (F8)			_	oodplain Soils (F19) (MLRA 149B)
Sandy	Gleyed Matrix (S4)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy I	Redox (S5)							Red Parent I	
Strippe	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	urface (S7) <b>(LRR R, I</b>	MLRA 14	19B)					Other (Expla	
31	- 6 lea adam e lea 43 e a cas						6	•	
			and wetland hyd	rolog	y must be	e presen	t, unless disturb	ed or problematic.	-
Restrictive	Layer (if observed)	١.	Nicon			L In color	Call Days and 2		Waa d Na
	Type:		None			Hyaric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

Vegetation Photos



Soil Photos



Photo of Sample Plot



Project/Site: Garnet	City/County: Con-	quest, Cayuga County	Sampling Date: 2020-Nov-05
Applicant/Owner: NextEra		State: New York	Sampling Point: W-JJB-03; PFO-2
Investigator(s): Brian Stoos, F	Ryan Snow, Jacob brillo	Section, Township, Range:	
Landform (hillslope, terrace, etc	c.): Swamp	Local relief (concave, convex, none	e): Concave Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L	Lat: 43.1533681 Lon	g: -76.6010139
Soil Map Unit Name: Muck, o	leep		NWI classification: PFO
Are climatic/hydrologic conditio	ons on the site typical for this time of ye	ar? Yes No (If	no, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology significantly dis	sturbed? Are "Normal Circur	nstances" present? Yes 🟒 No
Are Vegetation, Soil	, or Hydrology naturally probl	lematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Hydrophytic Vegetation Preser Hydric Soil Present?		ng point locations, transects,	
•	Yes 🟒 No	¦ '	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-JJB-03
TRC covertype is PFO.			
HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of	of one is required; check all that apply)	Second	lary Indicators (minimum of two required)
		Suri	face Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	_ <u>√</u> Water-Stained Lea Aquatic Fauna (B1	Dra	inage Patterns (B10)
Figit Water Table (A2) Saturation (A3)	Aquatic Fauria (B1	✓ Mos	ss Trim Lines (B16)
Water Marks (B1)	Man Deposits (B): Hydrogen Sulfide	Odor (C1) — Dry	-Season Water Table (C2)
Sediment Deposits (B2)		neres on Living Roots (C3) — Cra	yfish Burrows (C8)
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduc	rtion in Tilled Soils (C6)	emorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	e (C7)	llow Aquitard (D3)
<u>✓</u> Inundation Visible on Aeria			rotopographic Relief (D4)
Sparsely Vegetated Concav	e Surface (B8)		-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No <u>_</u> Depth	(inches):	
Water Table Present?	Yes No Depth	(inches): Wetlan	d Hydrology Present? Yes No
Saturation Present?	Yes _ <b>✓</b> _ No Depth	(inches): 8	
(includes capillary fringe)			
	m gauge, monitoring well, aerial photos	s previous inspections) if available	
	m gauge, monitoring weil, aeriai prioto.	s, previous inspections, il avaliable	<del>.</del>
Remarks:			

	Dominant Species?	Indicator Status	Dominance Test worksheet Number of Dominant Spec		5	(4)
60	Yes	FACW	Are OBL, FACW, or FAC:			(A)
20	Yes	FAC	Total Number of Dominant	Species	5	(B)
15	No	FACW				
5	No	FAC		es That	100	(A/B)
				>†·		
					Multiply F	Rv.
				20		20
100	= Total Cov	er			_	260
						75
20	Yes	FACW				0
			· -			0
			· ·			355 (B)
					_	333 (b)
			-			
			' ' '		ogotation	
			·		egetation	
20	= Total Cov	er				
					(Provide o	unnorting
15	Yes	OBL	. •	•		upporting
15	Yes	FACW				olain)
10	No	FACW				
5	No	OBL				y mast be
5	No	FACW	<u> </u>	•		
5	No	FACW	•		more in d	iameter a
					_	BH and
			greater than or equal to 3.2	28 ft (1 m	tall.	
						ardless of
			size, and woody plants less	than 3.2	3 ft tall.	
			-	nes great	er than 3.2	28 ft in
55	= Total Cov	er	height.			
	-		Hydrophytic Vegetation Pr	esent? Y	es 🟒 No	o
			· 1			
		20 Yes  15 No  5 No  100 = Total Cove  20 Yes  20 = Total Cove  15 Yes  15 Yes  10 No  5 No  5 No  5 No	60 Yes FACW 20 Yes FAC 15 No FACW 5 No FAC  100 = Total Cover  20 Yes FACW  20 Yes FACW  21	Are OBL, FACW, or FAC: Total Number of Dominant Across All Strata:	Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species 20 FACW species 130 FAC species 25 FACU species 0 UPL species 0 UPL species 0 Column Totals 175 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic V  2 - Dominance Test is >50%  3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ data in Remarks or on a separate sh Problematic Hydrophytic Veget  10 No FACW 10 No FACW 10 No FACW 11 Number of Dominant Species Across All Strata: Percent of Dominant Species Across All Strata: Percent of Dominant Species Across All Strata: Percent of Dominant Species Across All Strata:  Total % Cover of:  OBL species 20 FACW species 0 Column Totals 175 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic V  2 - Dominance Test is >50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ data in Remarks or on a separate sh Problematic Hydrophytic Veget 1Indicators of hydric soil and wetland present, unless disturbed or probler Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or breast height (DBH), regardless of he Sapling/shrub – Woody plants less the greater than or equal to 3.28 ft (1 m) Herb – All herbaceous (non-woody) size, and woody plants less than 3.28 Woody vines – All woody vines great height.	Are OBL, FACW, or FAC:  Total Number of Dominant Species  Solution of FACW  Total Number of Dominant Species  Solution of FACW  Total Number of Dominant Species  Solution of FACW  Factor of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply E  OBL species  20

		to the d				ndicato	or confirm the	absence of indicato	ors.)
Depth	Matrix		Redox						
(inches)	Color (moist)	%_	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 5	10YR 2/2	100					Fibric Silt Loam		
5 - 9	10YR 2/2	100					Silty Clay		
9 - 16	10YR 6/2	60	7.5YR 5/8	40	D	M	Sandy Clay		
	-								
				_				_	
	-								
				_					
				_					
								<u></u>	
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. 2	Location: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Pr	roblematic Hydric Soils³:
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) <b>(LRR</b> I	R, MLRA 149B)	2 cm Muck (	A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLR	A 149B)		e Redox (A16) <b>(LRR K, L, R)</b>
Black H	listic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, I	_)	· <del></del>	Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		Loamy Gleye					Dark Surface	
	ed Layers (A5)		Depleted Ma					<del></del>	elow Surface (S8) (LRR K, L)
	ed Below Dark Surf	ace (A1							urface (S9) (LRR K, L)
l ——	ark Surface (A12)		Depleted Da						nese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	essior	ıs (F8)			_	oodplain Soils (F19) (MLRA 149B)
Sandy	Gleyed Matrix (S4)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy I	Redox (S5)							Red Parent I	
Strippe	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	urface (S7) <b>(LRR R, I</b>	MLRA 14	19B)					Other (Expla	
31	- 6 lea adam e lea 43 e a cas						6	•	
			and wetland hyd	rolog	y must be	e presen	t, unless disturb	ed or problematic.	-
Restrictive	Layer (if observed)	١.	Nicon			L In color	Call Burners		Was a Na
	Type:		None			Hyaric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

Vegetation Photos



Soil Photos



Photo of Sample Plot



Project/Site: Garnet	City/County: Cato	o, Cayuga	Sampling Date: 20	Sampling Date: 2020-June-29		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJI	B-03; PSS-1		
Investigator(s): Jake Brillo, Br	idgette Rooney	Section, Township, Ra	ange:			
Landform (hillslope, terrace, etc	c.): Depression	Local relief (concave, convex	, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 43.1447029487	Long: -76.6225495097	Datum: WGS84		
Soil Map Unit Name: Palmyr	a gravelly loam, 8 to 15 percent slopes		NWI classification	on:		
Are climatic/hydrologic condition	ons on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)	)		
Are Vegetation, Soil	, or Hydrology significantly di	sturbed? Are "Normal o	Circumstances" present?	Yes No		
Are Vegetation, Soil	, or Hydrology naturally prob	lematic? (If needed, ex	xplain any answers in Remarks	5.)		
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, trans	ects, important features,	etc.		
		1				
Hydrophytic Vegetation Preser			wl. 15			
Hydric Soil Present?	Yes <u></u> No	Is the Sampled Area within a	a Wetland? Yes	No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site	ID: W-J	JB-03		
Remarks: (Explain alternative p	procedures here or in a separate report	<u> </u>				
TDC and want in a lin DCC						
TRC covertype is PSS.						
HYDROLOGY						
HTDROLOGT						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	of one is required; check all that apply)	<u>S</u>	econdary Indicators (minimum	n of two required)		
		(70)	Surface Soil Cracks (B6)	•		
Surface Water (A1)	Water-Stained Lea		Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B1	13)	Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B1		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		Cravfish Burrows (C8)			
Sediment Deposits (B2)	· · · · · · · · · · · · · · · · · · ·	heres on Living Roots (C3)	3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		_ Shallow Aquitard (D3)			
Inundation Visible on Aeria		Remarks)	Microtopographic Relief (D4	.)		
Sparsely Vegetated Concav	e Surface (B8)		✓ FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No _ <b>_/</b> Depth	(inches):				
Water Table Present?	Yes No _ <b>_/</b> Depth	(inches):	Vetland Hydrology Present?	Yes No		
Saturation Present?		(inches): 0	,	•		
	Tes No Depti	(inches).				
(includes capillary fringe)				<del></del> .		
Describe Recorded Data (strea	am gauge, monitoring well, aerial photo	s, previous inspections), if ava	ailable:			
Remarks:						
inciniarity.						
1						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )						
		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	4	(A)
1				Are OBL, FACW, or FAC:		
2				Total Number of Dominant Species	4	(B)
3				Across All Strata:		
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
5.				-	-	<del></del>
6.				Prevalence Index worksheet: Total % Cover of:	N. A Hatimilia I	D
7.					Multiply	-
	0	= Total Cov	er	OBL species 10	x 1 = _	10
Sapling/Shrub Stratum (Plot size:15 ft)		_		FACW species 100	x 2 = _	200
1. Cornus amomum	40	Yes	FACW	FAC species 40	x 3 =	120
2. Viburnum dentatum	20	Yes	FAC	FACU species 0	x 4 =	0
3.			1710	- UPL species 0	x 5 =	0
4.				- Column Totals 150	(A)	330 (B)
5.				Prevalence Index = B/A =	2.2	
				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%	Ü	
	60	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size: 5 ft )				4 - Morphological Adaptations	1 (Provide :	supporting
1. <i>Phalaris arundinacea</i>	50	Yes	FACW	data in Remarks or on a separate s	•	
2. Eutrochium purpureum	20	Yes	FAC	Problematic Hydrophytic Vege		plain)
3. Carex lurida	10	No	OBL	¹Indicators of hydric soil and wetlar		
4. Onoclea sensibilis	10	No	FACW	present, unless disturbed or proble		~
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) c	r more in o	diameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less	_	BH and
9.				greater than or equal to 3.28 ft (1 n		
10				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11				size, and woody plants less than 3.3	28 ft tall.	
12				Woody vines – All woody vines grea	iter than 3.	28 ft in
12.	90	= Total Cov	or	height.		
Woody Vine Stratum (Plot size:30 ft)		_ TOTAL COV	CI	Hydrophytic Vegetation Present?	Yes <b>√</b> N	0
1.						
· · -				-		
2				-		
				-		
3.				-		
3. 4.						
		= Total Cov	er			

	cription: (Describe	to the				indicato	r or confirm the	absence of indi	cators.)
Depth _	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Textu	ire	Remarks
0 - 12	10YR 3/2	90	7.5YR 5/6	10	С	M/PL	Sandy L	.oam	
		_		_					_
							-		
		- —							
								·	
	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	itrix, MS =	= Masked	Sand Grains. 2		Pore Lining, M = Matrix.
Hydric Soil I								Indicators fo	r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue E	elow	Surface (	S8) <b>(LRR</b>	R, MLRA 149B)	2 cm Mu	ck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark S	urfac	e (S9) <b>(LR</b>	R R, MLR	A 149B)		airie Redox (A16) <b>(LRR K, L, R)</b>
Black Hi	stic (A3)		Loamy Mud	ky M	ineral (F1	) (LRR K,	L)		cky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Hydroge	en Sulfide (A4)		Loamy Gley						face (S7) <b>(LRR K, L)</b>
Stratifie	d Layers (A5)		Depleted M	latrix	(F3)				e Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surf	ace (A1	l1) <u>✓</u> Redox Dark	Surf	ace (F6)			•	k Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted D	ark Sı	urface (F	7)			nganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Dep	ressic	ns (F8)				
Sandy G	Gleyed Matrix (S4)								t Floodplain Soils (F19) (MLRA 149B)
Sandy R	ledox (S5)								odic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)								ent Material (F21)
	rface (S7) <b>(LRR R, N</b>	AIDA 1	/OP)					•	llow Dark Surface (TF12)
Dark 3u	11ace (37) (ERR R, 1	VILION I	430)					Other (Ex	(plain in Remarks)
	of hydrophytic veg		n and wetland hy	drolo	gy must l	oe presei	nt, unless disturb	ed or problema	itic.
Restrictive I	_ayer (if observed)	:							
	Type:		None			Hydric :	Soil Present?	,	Yes No
	Depth (inches):								
Remarks:									
Pofucal due	to coarco fragmo	ntc							
Refusal due	e to coarse fragme	IILS							

Project/Site: Garnet	City/County:_ C	ato, Cayuga	Sampling Date: 2020-June-19	
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-03; PUB-1	
Investigator(s): Jake Brillo, Ma	att Boscow	Section, Township,	Range:	
Landform (hillslope, terrace, etc	c.): Depression	Local relief (concave, conv	vex, none): Swamp Slope (%): (	0-1
Subregion (LRR or MLRA):	LRR L	Lat: 43.144861115	2 Long: -76.6192094051 Datum: WG	S84
Soil Map Unit Name: Muck, o	leep		NWI classification:	
Are climatic/hydrologic conditio	ons on the site typical for this time of	year? Yes _✓_ No	(If no, explain in Remarks.)	
Are Vegetation, Soil,	, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" present? Yes 🟒 No	
Are Vegetation, Soil,	, or Hydrology naturally pro	oblematic? (If needed,	explain any answers in Remarks.)	
CLIMMADY OF FINIDINGS	Attach cite man chowing came	oling point locations, tra	assets important features etc	
Hydrophytic Vegetation Presen			nsects, important features, etc.	
Hydric Soil Present?	Yes <u>✓</u> No	Is the Sampled Area with	in a Watland? Yas / No	
		·		
Wetland Hydrology Present?	Yes _ <b>✓</b> _ No	If yes, optional Wetland S	ite ID: W-JJB-03	
TRC covertype is PUB.				
Wetland Hydrology Indicators: Primary Indicators (minimum of the surface Water (A1)  Yeligh Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Re	Leaves (B9) (B13) B15) de Odor (C1) spheres on Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6)  — Drainage Patterns (B10)  ✓ Moss Trim Lines (B16)  — Dry-Season Water Table (C2)  — Crayfish Burrows (C8)  — Saturation Visible on Aerial Imagery (C9)  — Stunted or Stressed Plants (D1)  ✓ Geomorphic Position (D2)	ed)
✓ Inundation Visible on Aerial	I Imagery (B7) Other (Explain i	in Remarks)	Shallow Aquitard (D3)	
Sparsely Vegetated Concav	e Surface (B8)		✓ Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)	
Field Observations:			- I AC-Neutral Test (D3)	
Surface Water Present?	Yes <u></u> ✓ No Dep	oth (inches): 24		
Water Table Present?		oth (inches): 24	- Wetland Hydrology Present? Yes _∠_ No	0
		`	- Wetland Hydrology Present?	<i></i>
Saturation Present?	Yes No Dep	oth (inches): 0		
(includes capillary fringe)			<u> </u>	
Remarks:	m gauge, monitoring well, aerial pho			

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Th	at 5	(A)
1. Acer saccharinum	10	Yes	FACW	Are OBL, FACW, or FAC:		(/-)
Betula alleghaniensis	5	Yes	FAC	Total Number of Dominant Speci Across All Strata:	es <b>5</b>	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	t 100	(A/B)
5.				Prevalence Index worksheet:		
j				Total % Cover of:	Multiply I	Bv:
7				OBL species 120	x 1 =	120
	15	= Total Cov	er	FACW species 60	x 2 =	120
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 5	_ x3=	15
. Lindera benzoin	30	Yes	FACW	FACU species 0	_ x 4 =	0
				UPL species 0	_	0
3				Column Totals 185		255 (B)
i.					_ (A) _	233 (B)
· -	. ,			Prevalence Index = B/A		
5.				Hydrophytic Vegetation Indicator		
7.				1- Rapid Test for Hydrophyt	c Vegetation	
	30	= Total Cov	er	✓ 2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		=		3 - Prevalence Index is ≤ 3.		
. Hydrocharis morsus-ranae	60	Yes	OBL	4 - Morphological Adaptatio		supporting
2. Peltandra virginica	50	Yes	OBL	data in Remarks or on a separate		
3. Osmundastrum cinnamomeum	20	No	FACW	Problematic Hydrophytic Ve	-	
1. Osmunda spectabilis	10	No	OBL	¹Indicators of hydric soil and wet		gy must be
5.			OBL	present, unless disturbed or prol	lematic	
				Definitions of Vegetation Strata:		
5				Tree – Woody plants 3 in. (7.6 cm		liameter a
7.				breast height (DBH), regardless of		D
3.				Sapling/shrub – Woody plants les		BH and
)				greater than or equal to 3.28 ft (		ardlace of
0				Herb – All herbaceous (non-wood size, and woody plants less than		aruless or
1				Woody vines – All woody vines gr		20 ft in
2				height.	eater than 5	20 11 111
	140	= Total Cov	er			
Noody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present	Yes 🟒 N	0
2.						
2				· [		
2. 3. 4.						

Profile Desc	ription: (Describe to	the	depth needed to	docui	ment the	indicato	r or confirm the	absence of indicators.)
Depth	Matrix		Redox	Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
-								
				_				
						·		
		_		_				
		_		_				
		· —		_				
		_		_				
		_						· · · · · · · · · · · · · · · · · · ·
		_		_				<del></del>
		_		_				<del></del>
		_		_				<del></del>
1Type: C = C	oncentration, D = D	enlet	ion RM = Reduce	d Ma	trix MS =	Masked	Sand Grains 2	Location: PL = Pore Lining, M = Matrix.
Hydric Soil I		cpiet	ion, rivi - reduce	G 1910	, 1913 –	MINISTER	Jana Grains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Re	-low	Surface (9	S8) (J RP	R, MLRA 149B)	•
	oipedon (A2)		Thin Dark Su					2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Mucl					Coast Prairie Redox (A16) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gley				•	5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Ma	atrix (	(F3)			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfac	ce (A1	1) Redox Dark	Surfa	ice (F6)			Tolyvalde below Surface (30) (LRR K, L)
	ark Surface (A12)		Depleted Da			)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Material (F21)
Stripped	l Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b> I	LRA 1	49B)					✓ Other (Explain in Remarks)
3Indicators	of hydrophytic vege	tatior	n and wetland hvo	Irolos	zv must b	e preser	nt. unless disturb	•
-	ayer (if observed):		<u> </u>		<u>, , , , , , , , , , , , , , , , , , , </u>		,	
	Type:		None			Hvdric	Soil Present?	Yes _ ✓ No
	Depth (inches):			-		, ,		
Remarks:	Deptir (menes).							
Remarks.								
D		E:1.			l		م تعلق ما ما	
Due to mun	dation a clear soil p	ronie	was unobtainabi	e. 50	is are ass	sumea to	be nyaric.	

Project/Site: Garnet	Ci	i <b>ty/County:</b> Cato,	. Cayuga		Sampling Date: 2020-June-19		
Applicant/Owner: NextEra			State: NY		Sampling Point: W-JJ	B-03; UPL-1	
Investigator(s): Jake Brillo, Ma	att Boscow, Jacob brillo		Section, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Hillslope		Local relief (concave, conv	ex, none):	Concave	Slope (%): 1-10	
Subregion (LRR or MLRA):	LRR L		Lat: 43.144566156	Long:	-76.6190652364	Datum: WGS84	
Soil Map Unit Name: Muck, o	deep				NWI classification	on:	
Are climatic/hydrologic condition	ons on the site typical fo	or this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.	)	
Are Vegetation, Soil				al Circumst	tances" present?	Yes No	
Are Vegetation, Soil	, or Hydrology	_ naturally proble	ematic? (If needed,	explain an	y answers in Remarks	5.)	
SUMMARY OF FINDINGS -	Attach site map sho	owing samplin	g point locations, trar	nsects, im	nportant features,	etc.	
Hydrophytic Vegetation Preser	nt? Yes	_ No <b>/</b> _					
Hydric Soil Present?		į	Is the Sampled Area within	n a Wetlan	nd? Ve	s No⁄_	
		ł	·		id. Te	3	
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·	_No	If yes, optional Wetland Si	ite iD:			
Remarks: (Explain alternative p	procedures here or in a	separate report)					
TRC covertype is UPL.							
HYDROLOGY							
IIIDROLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum o	of one is required; check	k all that apply)		Secondar	<u>y Indicators (minimun</u>	n of two required)	
Surface Water (A1)	W	ater-Stained Lea	ves (B9)		ce Soil Cracks (B6)		
High Water Table (A2)		quatic Fauna (B13			age Patterns (B10)		
Saturation (A3)		arl Deposits (B15		Moss Trim Lines (B16)			
Water Marks (B1)	Hy	ydrogen Sulfide (	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	O:	xidized Rhizosph	eres on Living Roots (C3)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Pr	resence of Reduc	ed Iron (C4)	' Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)	Stuffled of Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits (B5)		nin Muck Surface			w Aquitard (D3)		
Inundation Visible on Aeria	· · · · · · · · · · · · · · · · · · ·	ther (Explain in R	emarks)		topographic Relief (D4	.)	
Sparsely Vegetated Concav	e Surface (B8)				eutral Test (D5)	•	
Field Observations:							
Surface Water Present?	Yes No <b>_</b> ✓	Depth (i	inches):				
Water Table Present?	Yes No _ <b>_</b>	Depth (i	inches):	Wetland I	Hydrology Present?	Yes No <b></b> ✓	
Saturation Present?	Yes No _ <b>_</b>		· · · · · · · · · · · · · · · · · · ·	-	.,		
	tes No	Depth (		-			
(includes capillary fringe)						<del></del>	
Describe Recorded Data (strea	m gauge, monitoring w	ell, aerial photos	, previous inspections), if a	available:			
Remarks:							

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works  Number of Dominant S			
. Acer saccharum	60	Yes	FACU	Are OBL, FACW, or FAC	•	1	(A)
. Tilia americana	20	Yes	FACU	Total Number of Domir			(D)
. Fraxinus americana	10	No No	FACU	Across All Strata:		5	(B)
			17100	Percent of Dominant S	pecies That	20	(A/B)
				Are OBL, FACW, or FAC			(,,,)
				Prevalence Index work			
·				Total % Cover		Multiply	-
	90	= Total Cov	er	- OBL species	0	x 1 = _	0
apling/Shrub Stratum (Plot size:15 ft)		=		FACW species	40	x 2 = _	80
				FAC species	0	x 3 =	0
				FACU species	195	× 4 =	780
				UPL species	0	x 5 = _	0
				- Column Totals	235	(A) _	860 (B)
				- Prevalence Ir	idex = B/A =	3.7	
				Hydrophytic Vegetation	n Indicators:		
·				1- Rapid Test for H	Hydrophytic V	egetation	
-		= Total Cov	er e	2 - Dominance Te			
lerb Stratum (Plot size: <u>5 ft</u> )				3 - Prevalence Ind			
. Podophyllum peltatum	55	Yes	FACU	4 - Morphological			supporting
. Pteridium aquilinum	40	Yes	FACU	data in Remarks or on	•		
. Lindera benzoin	40	Yes	FACW	- Problematic Hydr			•
. Parthenocissus quinquefolia	10	No	FACU	<ul> <li>Indicators of hydric so present, unless disturb</li> </ul>		-	gy must be
i.				Definitions of Vegetation		Hatic	
:				Tree – Woody plants 3		more in	diamotor a
· -				breast height (DBH), re			alameter a
-				Sapling/shrub – Woody			BH and
·				greater than or equal t	•		
0.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
1				size, and woody plants	less than 3.2	8 ft tall.	
2.				Woody vines – All wood	dy vines great	er than 3.	28 ft in
	145	= Total Cov	er e	height.			
Voody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetatio	n Present? \	⁄es N	lo <u>_</u>
·				-			
3.				_			
i				_			
	0	= Total Cov	er				

Profile Desc	cription: (Describe t	to the de	epth needed to do	cun	nent the i	ndicato	or confirm the	absence of indicators	5.)
Depth _	Matrix		Redox	Feat	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Te	xture	Remarks
0 - 7	10YR 3/3	100	_				Rocky	Silt Loam	
		· <u></u>							
				_					
				_					
				_					_
			_	_					
				_					
				_					
		· ·		_					
				_					
				_					
				_					
				_					
¹Type: C = C	Concentration, D = I	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. 2	Location: PL = Pore L	ining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for Pro	blematic Hydric Soils³:
Histosol	(A1)		Polyvalue Bel	ow S	urface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Sur	face	(S9) <b>(LRR</b>	R, MLR	A 149B)		Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucky			(LRR K, I	_)		eat or Peat (S3) (LRR K, L, R)
,	en Sulfide (A4)		Loamy Gleyed					Dark Surface (	
	d Layers (A5)		Depleted Mat					Polyvalue Belo	ow Surface (S8) (LRR K, L)
	d Below Dark Surfa							Thin Dark Surf	face (S9) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Dar					Iron-Mangane	se Masses (F12) (LRR K, L, R)
	flucky Mineral (S1)		Redox Depres	SIOI	IS (F8)			Piedmont Floo	odplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (	TA6) (MLRA 144A, 145, 149B)
_	tedox (S5)							Red Parent Ma	aterial (F21)
	d Matrix (S6)							Very Shallow [	Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b>	ILRA 149	)B)					Other (Explain	in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydro	olog	y must be	e preser	it, unless disturb	ed or problematic.	
Restrictive I	_ayer (if observed):								
	Type:		None			Hydric	Soil Present?	,	Yes No/_
	Depth (inches):								
Remarks:								•	
D. C I alice									
Refusal due	to coarse fragmer	ils							

Project/Site: Garnet	City/County: C	Cato, Cayuga	Sampling Date:	Sampling Date: 2020-June-19		
Applicant/Owner: NextEra		State: NY	Sampling Point: W	-JJB-03; UPL-2		
Investigator(s): Jake Brillo, Ma	tt Boscow, Jacob brillo	Section, Township,	Range:			
Landform (hillslope, terrace, etc.	): Hillslope	Local relief (concave, conve	ex, none): Convex	Slope (%): 1-10		
Subregion (LRR or MLRA):	_RR L	Lat: 43.144838442	1 Long: -76.6212642287	Datum: WGS84		
Soil Map Unit Name: Palmyra	gravelly loam, 8 to 15 percent slop	es	NWI classifica	tion:		
Are climatic/hydrologic conditior	ns on the site typical for this time of	f year? Yes No	(If no, explain in Remark	S.)		
Are Vegetation, Soil,	or Hydrology significantly		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If needed,	explain any answers in Remar	·ks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sam	pling point locations, tran	sects, important feature	s, etc.		
Hydrophytic Vegetation Present	:? Yes No <b></b> ∕_					
Hydric Soil Present?	Yes No _ <b>_</b>	Is the Sampled Area within	n a Wetland?	Yes No/		
		<u> </u>		.cs No <u>_v</u>		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te iD:			
Remarks: (Explain alternative pr	ocedures here or in a separate rep	ort)				
TRC covertype is UPL.						
HYDROLOGY						
Wetland Hydrology Indicators:		_				
Primary Indicators (minimum of	f one is required; check all that app	<u>ly)</u>	Secondary Indicators (minimu	um of two required)		
Surface Water (A1)	Water-Stained	Leaves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits	(B15)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfi	de Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		spheres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Re		Saturation visible on Aerial imagery (C9) Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		duction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surf		Shallow Aquitard (D3)			
Inundation Visible on Aerial	· · · · · · · · · · · · · · · · · · ·	in Remarks)	Microtopographic Relief (I	D4)		
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No <u></u> ✓ Dep	oth (inches):				
Water Table Present?	Yes No <u></u> ✓ Dep	oth (inches):	Wetland Hydrology Present?	Yes No _ <b>_</b> ✓		
Saturation Present?		oth (inches):	, , , , , , , , , , , , , , , , , , , ,			
	163 100 <u></u> Dep					
(includes capillary fringe)			L			
Describe Recorded Data (stream	n gauge, monitoring well, aerial pho	otos, previous inspections), if a	ivailable:			
Remarks:						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	0	(A)
1				Are OBL, FACW, or FAC:		
2				Total Number of Dominant Species Across All Strata:	2	(B)
3				Percent of Dominant Species That		<del></del>
4				- Are OBL, FACW, or FAC:	0	(A/B)
5.						
6.				Prevalence Index worksheet:	N. A. alaimala.	D
7.				Total % Cover of:	<u>Multiply</u>	•
-		= Total Cov	er	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species 0	x 2 =	0
				FAC species 0	x 3 =	0
				FACU species 80	x 4 =	320
3.		<del></del>		UPL species 0	x 5 =	0
				Column Totals 80	(A)	320 (B)
4.		<del></del>		Prevalence Index = B/A =	4	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	า
7				2 - Dominance Test is > 50%		
	0	= Total Cov	er	3 - Prevalence Index is ≤ 3.0¹		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptations	1 (Provide	sunnorting
1. Trifolium hybridum	30	Yes	FACU	data in Remarks or on a separate sl		supporting
2. <i>Plantago major</i>	20	Yes	FACU	- Problematic Hydrophytic Vege		xplain)
3. <i>Poa pratensis</i>	15	No	FACU	- Indicators of hydric soil and wetlan		
4. Galium mollugo	15	No	FACU	present, unless disturbed or proble	-	,ast 20
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7.				breast height (DBH), regardless of h		diameter at
8.				Sapling/shrub – Woody plants less t	_	DBH and
9.		<del></del>		greater than or equal to 3.28 ft (1 m		DDIT GITG
10.	<del></del>			Herb – All herbaceous (non-woody)		gardless of
				size, and woody plants less than 3.2		ga. a.c
11.				Woody vines – All woody vines grea		3.28 ft in
12				height.		
	80	= Total Cov	er		Voc 1	No. 1
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	res r	NO <u>7</u>
1.				_		
2				_		
3						
4.						
•	0	= Total Cov	er			
		•				
Remarks: (Include photo numbers here or on a sep	parate sheet.)					

Profile Description: (Describe to the c			ndicator	or confirm the a	bsence of indicators.)
Depth Matrix	Redox Fea	itures			
(inches) Color (moist) %	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 13 10YR 4/3 100				Loam	
					<del></del>
					<del></del>
		· ——			
					<del></del>
					<del></del>
¹Type: C = Concentration, D = Depleti	on, RM = Reduced Ma	trix, MS = I	Masked :	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below	Surface (S8	3) (LRR R	, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	Thin Dark Surface	e (S9) <b>(LRR</b>	R, MLRA	(149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Loamy Mucky Mi	neral (F1) <b>(</b>	LRR K, L	)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Gleyed Ma	atrix (F2)			Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)	Depleted Matrix (	(F3)			Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A1	I) Redox Dark Surfa	ace (F6)			•
Thick Dark Surface (A12)	Depleted Dark Su	ırface (F7)			Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depressio	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)					Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)					Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)					Red Parent Material (F21)
Dark Surface (S7) (LRR R, MLRA 14	IOD)				Very Shallow Dark Surface (TF12)
Dark Surface (37) (EKK K, MEKA 12	נטפו				Other (Explain in Remarks)
<sup>3</sup> Indicators of hydrophytic vegetation	and wetland hydrolog	gy must be	present	t, unless disturbe	ed or problematic.
Restrictive Layer (if observed):					
Type:	None		Hydric S	Soil Present?	Yes No/_
Depth (inches):	_				
Remarks:	·				
Remarks.					
Refusal due to coarse fragments					

Project/Site: Garnet		City/County: Cato	, Cayuga County		Sampling Date: 20	)20-Nov-04
Applicant/Owner: NextEra			State: Nev	w York	Sampling Point: W-JJ	JB-03; UPL-3
Investigator(s): Brian Stoos, F	kyan Snow, Jacob bri	llo	Section, Township,	Range:		
Landform (hillslope, terrace, etc	): Agricultural	Field	Local relief (concave, conv	ex, none):	Flat	Slope (%): 1-10
Subregion (LRR or MLRA):	LRR L		Lat: 43.144152	Long:	-76.605697	Datum: WGS84
Soil Map Unit Name: Niagara	fine sandy loam				NWI classification	on:
Are climatic/hydrologic conditio	ns on the site typica	I for this time of ye	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.	.)
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norm	al Circums	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain an	ny answers in Remark	s.)
SUMMARY OF FINDINGS – Hydrophytic Vegetation Present Hydric Soil Present?	rt? YesYes	No _ <b>✓</b> No _ <b>✓</b>	ls the Sampled Area withi	n a Wetlan		etc.
Wetland Hydrology Present?	Yes _	No _ <b>_</b> _	If yes, optional Wetland S	ite ID:		
TRC covertype is UPL.						
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of	of one is required; ch	neck all that annivi		Secondar	y Indicators (minimur	m of two required)
Primary indicators (minimum c	<u>n one is required, cr</u>	іеск ан шасарріу)			<b>y muicators (minimur</b> ce Soil Cracks (B6)	<u>ii oi two requirea)</u>
Surface Water (A1)	_	_ Water-Stained Lea			age Patterns (B10)	
High Water Table (A2)	_	_ Aquatic Fauna (B1			Trim Lines (B16)	
Saturation (A3)		_ Marl Deposits (B1		Dry-Se	eason Water Table (C2	2)
Water Marks (B1) Sediment Deposits (B2)	_	_ Hydrogen Sulfide	neres on Living Roots (C3)	Crayfi	sh Burrows (C8)	
Drift Deposits (B3)		_ Oxidized Kilizospi _ Presence of Reduc	_	Satura	ation Visible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)	_		tion in Tilled Soils (C6)		ed or Stressed Plants	(D1)
Iron Deposits (B5)	_	Thin Muck Surface			orphic Position (D2)	
Inundation Visible on Aerial	Imagery (B7)	_ _ Other (Explain in F			w Aquitard (D3)	0
Sparsely Vegetated Concave	e Surface (B8)				topographic Relief (D4	4)
Field Observations:				rac-N	leutral Test (D5)	
Surface Water Present?	Yes No _	/ Denth /	(inches):			
Water Table Present?	Yes No _	·	(inches):	Wetland	Hydrology Present?	Yes No
			·	- Welland I	nyurology Present:	163 110
Saturation Present?	Yes No _	<u>√</u> Depth (	(inches):	-		
(includes capillary fringe)						
Describe Recorded Data (strea						

	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Sp	ecies That	0	(4)
1.				Are OBL, FACW, or FAC:			(A)
2.				Total Number of Domina	ant Species	3	(B)
3.				Across All Strata:			
4.				Percent of Dominant Sp	ecies That	0	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index worksh			_
7.				Total % Cover of		Multiply	-
	0	= Total Cove	er	OBL species	10	x 1 = _	10
Sapling/Shrub Stratum (Plot size:15 ft)		=		FACW species	5	x 2 =	10
1.				FAC species	0	x 3 =	0
2.				FACU species	55	x 4 =	220
3.				UPL species	30	x 5 =	150
4.				Column Totals	100	(A)	390 (B)
5.				Prevalence Inc	dex = B/A =	3.9	
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for Hy	ydrophytic V	egetation	1
·	0	= Total Cove	or .	2 - Dominance Test	is > 50%		
Herb Stratum (Plot size: <u>5 ft</u> )		- 100010000	-1	3 - Prevalence Inde	x is ≤ $3.0^{1}$		
1. Poa pratensis	40	Yes	FACU	4 - Morphological A			supporting
Asclepias syriaca	15	Yes	UPL	data in Remarks or on a			
3. Daucus carota	15	Yes	UPL	Problematic Hydro			•
4. Galium asprellum	10	No No	OBL	¹Indicators of hydric soil		-	gy must be
5. Solanum carolinense	10	No No	FACU	present, unless disturbe		natic	
6. Phalaris arundinacea	5	No No	FACW	Definitions of Vegetation			-l:
7. Solidago canadensis	5	No	FACU	Tree – Woody plants 3 in breast height (DBH), reg			diameter at
8.			FACO	Sapling/shrub – Woody		_	DRH and
9.				greater than or equal to			DBIT dila
40				<b>Herb</b> – All herbaceous (r			gardless of
4.4				size, and woody plants le	-		<b>6</b>
				Woody vines – All woody			.28 ft in
12	100	= Total Cove		height.			
Manda Nina Chushana (Blat sina) 20 ft	100	_ 10tal Cove	21	Hydrophytic Vegetation	Present? \	∕es N	No 🗸
Woody Vine Stratum (Plot size: 30 ft ) 1.				, , , , ,			
2							
2.							
3.							
4		To to I Co					
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						
Fallow field							

	cription: (Describe	to the d				indicato	r or confirm the a	absence of	indica	tors.)
Depth	Matrix		Redox	Feat	tures					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>		Remarks
0 - 15	10YR 3/4	100					Silt Loar	m		
				_						
				_			-			
				_						
				_						
				_						
				_						
				_						
				_						
				_						
1Typo: C = 0	Concentration, D =	Donlotic	n PM = Poducod	 Mat	riv MC -	Maskod	Sand Grains 2	Location: E	DI - Do	re Lining, M = Matrix.
		pehieric	n, Rivi – Reduced	ıvidl	11A, IVIS =	iviaske0	Janu Grailis. 4			
Hydric Soil			Data 1 E 1			.0) (1.55	D MI DA 4 400°	indicato	ors tor I	Problematic Hydric Soils³:
Histoso	` '		•				R, MLRA 149B)	2 cn	n Muck	(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sur					Coa	st Prair	ie Redox (A16) <b>(LRR K, L, R)</b>
l ——	istic (A3)		Loamy Mucky			(LRR K,	L)	5 cn	n Muck	y Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleyed					Dar	k Surfa	ce (S7) <b>(LRR K, L)</b>
l ——	d Layers (A5)	(A 4 4	Depleted Mat					Poly	value E	Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (ATT						Thir	Dark S	Surface (S9) <b>(LRR K, L)</b>
l ——	ark Surface (A12)		Depleted Dar			)		Iron	-Manga	anese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depres	ssior	1S (F8)			Piec	lmont I	Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)							Mes	ic Spoo	dic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5)									t Material (F21)
Strippe	d Matrix (S6)									ow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, N</b>	/ILRA 14	9B)					-		lain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etation	and wetland hvdr	olog	v must b	e preser	nt. unless disturb			
-	Layer (if observed):				<i>y</i>		.,			
Restrictive	-		None			Lludria	Soil Present?		Voc	No. 7
	Type:	-	None			пушт	Soli Fresenti		ies_	No
	Depth (inches):									
Remarks:										
Refusal due	e to coarse fragmer	nts								

Vegetation Photos



Soil Photos



Photo of Sample Plot



Applicant/Owner: NextEra
Landform (hillslope, terrace, etc.): Hillslope
Subregion (LRR or MLRA): LRR L
Soil Map Unit Name: Ontario loam, 14 to 20 percent slopes, eroded NWI classification:  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are "Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No / 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)  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)  Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6)  Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)  Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Crayfish Burrows (C8) Surface (C3) Crayfish Burrows (C8) Crayfish Burrows (C8) Crayfish Burrows (C8) Crayfish Burrows (C8) Surface (C4) Crayfish Burrows (C8)
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No /_ 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)  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)  Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drinkape Patterns (B10) Moss Trim Lines (B16)  Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dvy-Season Water Table (C2) Dvy-Season Water Table (C2) Dvy-Season Water Table (C2) Dvy-Season Water Table (C2)
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Ves No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No /_ 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)  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Saturation (A3) Aquatic Fauna (B13) Moss Trim Lines (B16) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9)
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?
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 /_ Wetland Hydrology Present? Yes No /_ If yes, optional Wetland Site ID:  Remarks: (Explain alternative procedures here or in a separate report)  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) — High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) — Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) — Sediment Deposits (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) — Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  Prift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
Hydrophytic Vegetation Present? Yes No _∠   Is the Sampled Area within a Wetland? Yes No _∠   Wetland Hydrology Present? Yes No _∠   If yes, optional Wetland Site ID:    Wetland Hydrology Present? Yes No _∠   If yes, optional Wetland Site ID:    TRC covertype is UPL.   Wetland Hydrology Indicators:   Primary Indicators (minimum of one is required; check all that apply)   Secondary Indicators (minimum of two required)   Surface Soil Cracks (B6)
Hydrophytic Vegetation Present? Yes No _∠   Is the Sampled Area within a Wetland? Yes No _∠   Wetland Hydrology Present? Yes No _∠   If yes, optional Wetland Site ID:    Wetland Hydrology Present? Yes No _∠   If yes, optional Wetland Site ID:    TRC covertype is UPL.   Wetland Hydrology Indicators:   Primary Indicators (minimum of one is required; check all that apply)   Secondary Indicators (minimum of two required)   Surface Soil Cracks (B6)
Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  If yes, optional Wetland Site ID:  If yes, optional Wetland Site ID:  If yes, optional Wetland Site ID:  If yes, optional Wetland Site ID:  If yes, optional Wetland Site ID:  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Remarks: (Explain alternative procedures here or in a separate report)  TRC covertype is UPL.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Water Marks (B1)  Water Marks (B1)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Presence of Reduced Iron (C4)  Sediment Deposits (B3)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C9)
Remarks: (Explain alternative procedures here or in a separate report)  TRC covertype is UPL.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  High Water Table (A3)  Water Marks (B1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)
HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  Water Marks (B1)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)  Wetland Hydrology Indicators:  Water Apply Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Driit Deposits (D3) Presence of Reduced Front (C4)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1)
Iron Donosits (R5) — Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) — Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)  Microtopographic Relief (D4)
FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No / Depth (inches):
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Saturation Present? Yes No / Depth (inches):
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksh			
1.	% Cover	Species?	Status	Number of Dominant Sp Are OBL, FACW, or FAC:	oecies That	0	(A)
2.	. ——			Total Number of Domina	ant Species		
3.	· ——			Across All Strata:		1	(B)
4.				Percent of Dominant Sp	ecies That	0	(A /D)
				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index works	heet:		
6.				Total % Cover of	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
7				OBL species	0	x 1 =	0
	0	_= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3.				Column Totals	0	(A)	0 (B)
4				Prevalence Inc		-	0 (2)
5				•			
6				Hydrophytic Vegetation		/ t - t : - ·-	
7.				1- Rapid Test for H		/egetation	1
	0	= Total Cove	er	2 - Dominance Test			
Herb Stratum (Plot size:5 ft)		_		3 - Prevalence Inde		1 (5	
1. Glycine max	60	Yes	NI	4 - Morphological A			supporting
2.				data in Remarks or on a	•		l.a.i.m.)
3.				Problematic Hydro			-
4.				<sup>1</sup> Indicators of hydric soil present, unless disturbe			gy must be
5.				-		matic	
6.				Definitions of Vegetation			al: + +
7.				Tree – Woody plants 3 ir breast height (DBH), reg			ulameter at
-				Sapling/shrub - Woody		_	ORH and
8.	. ——			greater than or equal to			DDIT allu
9.				Herb – All herbaceous (r			gardless of
10				size, and woody plants l	-		garaiess or
11				Woody vines – All woody			28 ft in
12				height.	y viries grea	ter triair 5.	.2010111
	60	_= Total Cove	er		. Dunnam#2 \	/a-a N	la (
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation	resent?	res i	NO <u>/</u>
1							
2							
3							
4							
	0	= Total Cove	er				
Domarks: (Include abote numbers bere er en a senare	o choot )	_					
Remarks: (Include photo numbers here or on a separat	.e sneet.)						
Active agricultural field							

	cription: (Describe t	to the de				indicato	r or confirm the	absence	of indicators.)	
Depth _	Matrix		Redox	Feat	tures					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Re	emarks
0 - 10	10YR 4/4	100					Loam			
				_						
				_						
				_						
		· — ·		_						
				_						
				_						
				_						
		· —		_						
		· —		_						
				_						
¹Type: C = C	Concentration, D = I	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. 2	<sup>2</sup> Location:	: PL = Pore Lining, M =	Matrix.
Hydric Soil	Indicators:							Indica	tors for Problematic I	Hydric Soils³:
Histosol	(A1)		Polyvalue Bel	ow S	urface (S	88) <b>(LRR</b>	R, MLRA 149B)	20	cm Muck (A10) (LRR K	. I . MI RA 149R)
Histic Ep	oipedon (A2)		Thin Dark Sur	face	(S9) (LRF	R R, MLR	A 149B)		past Prairie Redox (A1	
Black Hi	stic (A3)		Loamy Mucky	/ Mir	eral (F1)	(LRR K,	L <b>)</b>		cm Mucky Peat or Pea	
Hydroge	en Sulfide (A4)		Loamy Gleyed	d Ma	trix (F2)				•	
Stratifie	d Layers (A5)		Depleted Mat						ark Surface (S7) (LRR K	
	d Below Dark Surfa								lyvalue Below Surface	
	ark Surface (A12)		Depleted Dar			)			in Dark Surface (S9) (I	
	lucky Mineral (S1)		Redox Depre						on-Manganese Masse	
	Gleyed Matrix (S4)				(,			Pie	edmont Floodplain So	oils (F19) <b>(MLRA 149B)</b>
-	ledox (S5)							Me	esic Spodic (TA6) <b>(MLF</b>	RA 144A, 145, 149B)
_								Re	d Parent Material (F2	1)
	d Matrix (S6)							Ve	ry Shallow Dark Surfa	ace (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b>	1LRA 149	9B)					Ot	her (Explain in Remar	rks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturb	bed or pro	oblematic.	
-	_ayer (if observed):		,		,	T	,			
	Type:		None			Hydric	Soil Present?		Yes No/_	
	• •		None			nyunc	3011 Present:		ies ivo/_	
	Depth (inches):									
Remarks:										



Project/Site: Garnet		City/County: Cato	, Cayuga		Sampling Date: 20	)20-June-23
Applicant/Owner: NextEra			State: NY		Sampling Point: W-JJ	B-03; UPL-5
Investigator(s): Nick DeJohn, Ry	yan Snow		Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Low Hill		Local relief (concave, conv	ex, none):	Convex	Slope (%): 2-5
Subregion (LRR or MLRA): L	RR L		Lat: 43.150508338	6 Long:	-76.6167272721	Datum: WGS84
Soil Map Unit Name: Muck, de	ер				NWI classification	on:
Are climatic/hydrologic condition	s on the site typical	for this time of yea	ar? Yes No	_ <b>∠</b> (If no,	, explain in Remarks.)	
Are Vegetation, Soil,		significantly dis		al Circums	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology	naturally probl	ematic? (If needed,	explain an	ıy answers in Remark	s.)
SUMMARY OF FINDINGS – A	ttach site map sl	howing samplir	ng point locations, tran	nsects, in	nportant features,	etc.
Hydrophytic Vegetation Present	? Yes	No _ <b>_</b> _				
Hydric Soil Present?		No <u>_</u>	Is the Sampled Area withi	n a Watlan	nd? Ve	es No⁄_
			·		iu: it	.3 110
Wetland Hydrology Present?		No	If yes, optional Wetland Si	ite ID:	<del></del>	
Remarks: (Explain alternative pro	ocedures here or in	a separate report)				
TRC covertype is UPL. Drought						
HYDROLOGY						
IIIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; che	ck all that apply)		Secondar	<u>y Indicators (minimur</u>	n of two required)
Surface Water (A1)	,	Water-Stained Lea	ves (B9)		ce Soil Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B1			age Patterns (B10)	
Saturation (A3)		Marl Deposits (B15			Trim Lines (B16)	
Water Marks (B1)	!	Hydrogen Sulfide	Odor (C1)	-	eason Water Table (C2 sh Burrows (C8)	<u>(2)</u>
Sediment Deposits (B2)		Oxidized Rhizosph	eres on Living Roots (C3)	-	ation Visible on Aerial	Imageny (CQ)
Drift Deposits (B3)	!	Presence of Reduc	ced Iron (C4)		ed or Stressed Plants	
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)		orphic Position (D2)	(01)
Iron Deposits (B5)		Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial I		Other (Explain in F	Remarks)		topographic Relief (D4	4)
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)	•
Field Observations:						
Surface Water Present?	Yes No	Depth (	inches):			
Water Table Present?	Yes No	•	inches):	Wetland I	Hydrology Present?	Yes No
				-	.,	
Saturation Present?	Yes No	<u>z</u> Depth (	inches):	-		
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring	well, aerial photos	, previous inspections), if a	available:		
Remarks:						

				1			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet Number of Dominant Speci		1	(4)
1. Acer saccharum	70	Yes	FACU	Are OBL, FACW, or FAC:		Į.	(A)
2. Tsuga canadensis	15	No	FACU	Total Number of Dominant	Species	3	(B)
3. Fagus grandifolia	8	No	FACU	Across All Strata:			(D)
4.				Percent of Dominant Specie	es That	33.3	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index workshee	et:		
7.				Total % Cover of:		Multiply	=
	93	= Total Cov	er	OBL species	0	x 1 = _	0
Sapling/Shrub Stratum (Plot size:15 ft)		-	<b>.</b> .	FACW species	5	x 2 =	10
1. Hamamelis virginiana	10	Yes	FACU	FAC species	0	x 3 =	0
2.		103	17100	FACU species	103	x 4 =	412
3.				UPL species	0	x 5 =	0
4.				Column Totals	108	(A)	422 (B)
				Prevalence Index	= B/A =	3.9	
5				Hydrophytic Vegetation Ind	licators:		
6.				1- Rapid Test for Hydr	ophytic V	egetation	
7				2 - Dominance Test is			
	10	= Total Cov	er	3 - Prevalence Index is	s ≤ 3.0¹		
Herb Stratum (Plot size: <u>5 ft</u> )	_			4 - Morphological Ada	ptations <sup>1</sup>	(Provide	supporting
1. Lindera benzoin	5	Yes	FACW	data in Remarks or on a sep	parate sh	eet)	
2				Problematic Hydrophy	ytic Veget	ation¹ (Ex	plain)
3				<sup>1</sup> Indicators of hydric soil an	d wetland	d hydrolog	gy must be
4				present, unless disturbed of	r probler	natic	
5				Definitions of Vegetation St	rata:		
6				Tree – Woody plants 3 in. (7	7.6 cm) or	more in o	diameter at
7				breast height (DBH), regard	lless of he	eight.	
8				Sapling/shrub – Woody plan			BH and
9				greater than or equal to 3.2			
10				Herb – All herbaceous (non		_	gardless of
11				size, and woody plants less			
12.				Woody vines – All woody vi	nes great	er than 3.	28 ft in
	5	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		_		Hydrophytic Vegetation Pr	esent? Y	'es N	0
1.							
2.							
3.							
4.							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sneet.)						

Profile Desc	cription: (Describe	to the de				indicato	r or confirm the a	absence of indi	cators.)
Depth _	Matrix		Redox	Feat	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	ıre	Remarks
0 - 11	10YR 3/3	100		_			Sandy L	Loam	
				_					
				_					
				_				-	
				_					
				_					
				_					
				_					
				_					
				_					
		· —— ·		_					
				_					
<u>1</u> Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> l	Location: PL = F	Pore Lining, M = Matrix.
Hydric Soil I	ndicators:							Indicators fo	r Problematic Hydric Soils³:
Histosol			Polyvalue Bel					2 cm Mu	ck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark Sur				-		airie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucky			(LRR K,	L)	5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					Dark Sur	face (S7) <b>(LRR K, L)</b>
	d Layers (A5)		Depleted Mat					Polyvalue	e Below Surface (S8) (LRR K, L)
	d Below Dark Surfa							Thin Dar	k Surface (S9) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Dar Redox Depre			)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	flucky Mineral (S1)		Redox Depres	55101	15 (F0)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)							Mesic Sp	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	edox (S5)							Red Pare	ent Material (F21)
	d Matrix (S6)							Very Sha	llow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b>	1LRA 149	9B)					Other (Ex	xplain in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturb	ed or problema	atic.
Restrictive I	ayer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes No/_
	Depth (inches):								
Remarks:						-1			
 	:		-4-						
Unable to d	ig past 11 inches d	iue to ro	ots						

Soil Photos



Photo of Sample Plot







Project/Site: Garnet	Ci	ity/County: Cato	, Cayuga		Sampling Date: 20	20-June-29
Applicant/Owner: NextEra			State: NY		Sampling Point: W-JJI	B-03; UPL-6
Investigator(s): Jake Brillo, Brid	lgette Rooney		Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	): Knob		Local relief (concave, conv	/ex, none):	None	Slope (%): 2-5
Subregion (LRR or MLRA): L	RR L		Lat: 43.144832281	4 Long:	-76.6225158145	Datum: WGS84
Soil Map Unit Name: Lamson	mucky fine sandy loar	m			NWI classification	on:
Are climatic/hydrologic condition	is on the site typical fo	or this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)	)
Are Vegetation, Soil,	or Hydrology	_ significantly dis	turbed? Are "Norm	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology	_ naturally probl	ematic? (If needed,	explain an	y answers in Remarks	5.)
SUMMARY OF FINDINGS – A	Attach site map she	owing samplir	ng point locations, trar	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present		No/_	<u></u> 		•	
			la tha Camanlad Amaa with:	\A/-+l	مات داد	a Na (
Hydric Soil Present?		No <b>/</b> _	Is the Sampled Area withi		u: te	s No⁄_
Wetland Hydrology Present?	Yes	_ No _ <b>_</b> _	If yes, optional Wetland S	ite ID:		
Remarks: (Explain alternative pr	ocedures here or in a	separate report)	1			
TRC covertype is UPL.						
HYDROLOGY						
Watland Lludralam, Indicators						
Wetland Hydrology Indicators:		د با سمت خصطه الميا		Casandan		£+
Primary Indicators (minimum of	one is required; chec	k all that apply)		-	y Indicators (minimum	n of two requirea)
Surface Water (A1)	W	ater-Stained Lea	ves (B9)		e Soil Cracks (B6)	
High Water Table (A2)	Ad	quatic Fauna (B1	3)		age Patterns (B10) Trim Lines (B16)	
Saturation (A3)	M	larl Deposits (B15	5)		eason Water Table (C2	)
Water Marks (B1)		ydrogen Sulfide (		-	sh Burrows (C8)	)
Sediment Deposits (B2)			eres on Living Roots (C3)	-	ition Visible on Aerial	Imagery (C9)
Drift Deposits (B3)		resence of Reduc			ed or Stressed Plants (	•
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)		orphic Position (D2)	51)
Iron Deposits (B5)		hin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial	· · · · · · · · · · · · · · · · · · ·	ther (Explain in F	Remarks)		copographic Relief (D4	1)
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)	• •
Field Observations:						
Surface Water Present?	Yes No _ <b>_</b>	Depth (	inches):			
Water Table Present?	Yes No _		inches):	- Wetland F	Hydrology Present?	Yes No <b>_</b> ∠
				- Wedana i	lydrology i resent:	163110
Saturation Present?	Yes No	Depth (	inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream	າ gauge, monitoring w	ell, aerial photos	, previous inspections), if a	available:		
Remarks:						
Kemarks.						

e Stratum (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
·	% Cover	Species?	Status	Number of Dominant Species That	0	(A)
				Are OBL, FACW, or FAC:		
				Total Number of Dominant Species Across All Strata:	2	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply	D. a
				- OBL species 0	Multiply x 1 =	<u>ву.</u> 0
	0	= Total Cov	er	· -	-	0
ling/Shrub Stratum (Plot size:15 ft)		_			x 2 =	
				FAC species 0	x 3 =	0
				FACU species 30	x 4 =	120
				- UPL species 0	x 5 =	0
				- Column Totals 30	(A)	120 (B)
				Prevalence Index = B/A =	4	
				Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic	Vegetation	า
				2 - Dominance Test is > 50%		
	0	= Total Cov	er	3 - Prevalence Index is $\leq 3.0^1$		
b Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	s¹ (Provide	supporting
Erigeron annuus		Yes	FACU	data in Remarks or on a separate s	sheet)	•
Solidago altissima	10	Yes	FACU	Problematic Hydrophytic Veg	etation¹ (E	xplain)
				<sup>1</sup> Indicators of hydric soil and wetla	nd hydrolo	gy must be
				present, unless disturbed or proble	ematic	
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
				breast height (DBH), regardless of		
				Sapling/shrub – Woody plants less	than 3 in. l	DBH and
				greater than or equal to 3.28 ft (1 r	n) tall.	
				Herb – All herbaceous (non-woody	) plants, re	gardless of
				size, and woody plants less than 3.		
				Woody vines – All woody vines gre	ater than 3	.28 ft in
	30	= Total Cov	er	height.		
ody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetation Present?	Yes 1	No 🟒
say vine seatain (1 lot size						
				-		
				-		
				<del>-</del>		
		- Tatal Ca		-		
		= 10tai Cov	rer	_		
ody Vine Stratum (Plot size:30 ft)  narks: (Include photo numbers here or on a separ	0	= Total Cov			Yes 1	

Profile Desc Depth	ription: (Describe Matrix	to the d	epth needed to do Redox			indicato	r or confirm the a	bsence of indic	cators.)
		%	Color (moist)			1002	Taytura		Remarks
(inches) 0 - 6	Color (moist)		Color (moist)	90	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Silt Loan		Remarks
0-6	10YR 5/8	100		_	-		Silt Loaii		_
	_			-					
				. —		. ——			
						·			
		- —		_					
				_			-		
				_					
¹Type: C = C	oncentration. D =	Depletic	n. RM = Reduced	Mat	rix. MS =	Masked	Sand Grains 21	ocation: PI = P	ore Lining, M = Matrix.
Hydric Soil I		Depictio	TI, TIVI TICAGECA	iviac	11,7,1113	WIGSKEE	Sana Granis.		r Problematic Hydric Soils³:
Histosol			Polyvalua Ral	OW/ C	Surface (S	S8) (I <b>D</b> D	R, MLRA 149B)		•
	oipedon (A2)		Thin Dark Sur						ck (A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Mucky						airie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			(=::::,	<b>-</b> ,		cky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Mat						face (S7) <b>(LRR K, L)</b>
	d Below Dark Surfa	ace (A11	•					•	e Below Surface (S8) (LRR K, L)
	rk Surface (A12)	•	Depleted Dar			)			k Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redox Depre						iganese Masses (F12) (LRR K, L, R)
	leyed Matrix (S4)								t Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)								odic (TA6) (MLRA 144A, 145, 149B)
-	Matrix (S6)								nt Material (F21)
	rface (S7) (LRR R, N	/II RA 14	9B)					-	llow Dark Surface (TF12)
			,					Other (Ex	xplain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hydr	olog	y must b	e presei	nt, unless disturbe	ed or problema	tic.
Restrictive L	.ayer (if observed):								
	Type:		None			Hydrid	: Soil Present?	Yes	No
	Depth (inches):								
Remarks:									
Pofucal due	to coarse fragmer	atc							
Refusal due	to coarse magnier	ILS							

Project/Site: Garnet		City/County: Cato		Sampling Date: 2020-Nov-05				
Applicant/Owner: NextEr	a		State: New	v York	Sampling Point: W-JJE	3-03; UPL-7		
Investigator(s): Brian Stoo	s, Ryan Snow, Jacob	brillo	Section, Township, I	Range:				
Landform (hillslope, terrace,	etc.): Low Hill		Local relief (concave, conve	ex, none):	Convex	Slope (%): 1-10		
Subregion (LRR or MLRA):	LRR L		Lat: 43.153031	Long:	-76.610777	Datum: WGS84		
Soil Map Unit Name: Hilto	on loam, 3 to 8 perce	ent slopes			NWI classification	n:		
Are climatic/hydrologic cond	litions on the site typ	pical for this time of yea	ar? Yes No _	(If no,	, explain in Remarks.)			
Are Vegetation, Soil _	, or Hydrolog	gy significantly dis	turbed? Are "Norma	al Circumst	ances" present?	Yes No		
Are Vegetation, Soil _	, or Hydrolog	gy naturally proble	ematic? (If needed, e	explain any	y answers in Remarks.	.)		
SUMMARY OF FINDING:		ap showing samplir	ng point locations, tran	nsects, im	portant features, o	etc.		
Hydric Soil Present?	Y	/es No <b></b>	Is the Sampled Area within	n a Wetland	d? Yes	s No <u>_</u>		
Wetland Hydrology Present	? Y	⁄es No _ <b>_</b>	If yes, optional Wetland Sit	ite ID:				
Remarks: (Explain alternation of the second	re procedures nere c	от пта зерагасе герого						
HYDROLOGY Wetland Hydrology Indicators (minimu		l; check all that apply)		Secondary	v Indicators (minimum	of two required)		
	•			Surface Soil Cracks (B6)				
Surface Water (A1)		Water-Stained Lea		Drainage Patterns (B10)				
High Water Table (A2) Saturation (A3)		Aquatic Fauna (B1 Marl Deposits (B1		Moss Trim Lines (B16)				
Water Marks (B1)		Hydrogen Sulfide		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			neres on Living Roots (C3)	Crayfish Burrows (C8)				
Drift Deposits (B3)		Presence of Reduc	_	Saturation visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		Thin Muck Surface	e (C7)	Geomorphic Position (D2)				
Inundation Visible on A	erial Imagery (B7)	Other (Explain in F	Remarks)	Shallow Aquitard (D3) Microtopographic Relief (D4)				
Sparsely Vegetated Con	cave Surface (B8)				opograpnic Keiler (D4) eutral Test (D5)	1		
Field Observations:								
Surface Water Present?	Yes N	lo / Denth (	(inches):					
Water Table Present?	Yes N	·		-   Wetland !!	lydrology Present?	Yes No _ <b>_</b> ∠		
				vveuanu n	lydrology Present?	1e3 NO _ <b>_</b> Z		
Saturation Present?	Yes N	io 🗾 Depth (	inches):	-				
(includes capillary fringe)						· · · · · · · · · · · · · · · · · · ·		
Describe Recorded Data (st	Team gauge, morne	, mg wen, denar photos	, previous inspections, in a					

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test workshee Number of Dominant Spe		2	(4)
. Acer rubrum	45	Yes	FAC	Are OBL, FACW, or FAC:		2	(A)
2. Tilia americana	25	Yes	FACU	Total Number of Dominar	nt Species	5	(B)
. Carpinus caroliniana	10	No	FAC	Across All Strata:			
Acer saccharinum	5	No	FACW	Percent of Dominant Spec - Are OBL, FACW, or FAC:	cies That	40	(A/B)
5.				Prevalence Index workshe	et.		
i				- Total % Cover of:		Multiply	Rv.
·				- OBL species	0	x 1 =	<del>-j.</del> O
	85	= Total Cov	er	FACW species	5	x 2 =	10
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	70	x 3 =	210
. Fagus grandifolia	15	Yes	FACU	- FACU species	40	x 4 =	160
·				- UPL species	0	x 5 =	0
·				- Column Totals	115	(A)	380 (B)
·				- Prevalence Inde		_	360 (b)
•				•			
				Hydrophytic Vegetation Ir			
'.				1- Rapid Test for Hyd		egetation	
	15	= Total Cov	er	2 - Dominance Test i			
lerb Stratum (Plot size:5 ft)		=		3 - Prevalence Index			
. Rhamnus cathartica	15	Yes	FAC	4 - Morphological Ac			supporting
Asteracae	5	Yes	NI	data in Remarks or on a s	-		1
				Problematic Hydrop			
·				Indicators of hydric soil a			gy must be
· i.				present, unless disturbed		natic	
· i.				Definitions of Vegetation			
		·		Tree – Woody plants 3 in.			liameter a
·				breast height (DBH), regar			DIII
3.				Sapling/shrub – Woody pl greater than or equal to 3			вн апо
).				Herb – All herbaceous (no			ardlass of
0				size, and woody plants les			gai uless oi
1				Woody vines – All woody			28 ft in
2				height.	vii ies gi eut	er triair 5.	2010111
	20	= Total Cov	er		)	/a-a N	- (
Voody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation F	resent? Y	es iv	o <u>-</u> Z
				-			
				_			
3.				_			
i.		= Total Cov	ar	_			

Profile Desc	ription: (Describe	to the de	epth needed to do	cun	nent the	indicato	r or confirm the a	absence of in	dicators.)		
Depth _	Matrix		Redox	Feat	ures						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks		
0 - 18	10YR 2/2	100		_			Silt Loan	n			
				_							
				_							
				_							
				_							
				_							
				_			-				
				_							
				_			-				
				_							
				_							
				_							
<u>1</u> Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	Location: PL	= Pore Lining, M = Matrix.		
Hydric Soil I	ndicators:							Indicators	for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Bel	ow S	urface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cm 1	лиск (A10) <b>(LRR K, L, MLRA 149B)</b>		
	ipedon (A2)		Thin Dark Sur						Prairie Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3)		Loamy Mucky								
Hydroge	n Sulfide (A4)		Loamy Gleyed						Mucky Peat or Peat (S3) (LRR K, L, R)		
	d Layers (A5)		Depleted Mat	rix (I	F3)				furface (S7) (LRR K, L)		
	d Below Dark Surfa								lue Below Surface (S8) (LRR K, L)		
	irk Surface (A12)		Depleted Dar			)			ark Surface (S9) (LRR K, L)		
	lucky Mineral (S1)		Redox Depres						langanese Masses (F12) (LRR K, L, R)		
	leyed Matrix (S4)				,				ont Floodplain Soils (F19) (MLRA 149B)		
-	edox (S5)							Mesic	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>		
_								Red Pa	arent Material (F21)		
	Matrix (S6)							Very S	hallow Dark Surface (TF12)		
Dark Su	rface (S7) <b>(LRR R, M</b>	1LRA 149	∌B)					Other	(Explain in Remarks)		
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	ed or proble	matic.		
-	ayer (if observed):				,	İ	•	•			
	Туре:		None			Hydric	: Soil Present?	_	′es No <u>_</u>		
			None			riyuric	. Johr Fresent:	'	es NO <u>_/</u> _		
	Depth (inches):							<del>.</del>			
Remarks:											
Refusal due	to coarse fragmer	nts									
]											
]											
]											

Vegetation Photos



Soil Photos



Photo of Sample Plot



Project/Site: Garnet	City/County: Cato	o, Cayuga	Sampling Date: 2020-Nov-05		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJ	B-04; PEM-1	
Investigator(s): Jake Brillo, Rya	n Snow	Section, Township, Ran	ge:		
Landform (hillslope, terrace, etc.)	): Marsh	Local relief (concave, convex, r	none): Flat	Slope (%): 0-1	
Subregion (LRR or MLRA): L	RR L	Lat: 43.1483456598	Long: -76.6010786872	Datum: WGS84	
Soil Map Unit Name: Ontario	loam, 14 to 20 percent slopes, eroded		NWI classification	on:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye		_ (If no, explain in Remarks.	)	
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Normal Ci	rcumstances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed, exp	lain any answers in Remark	5.)	
SUMMARY OF FINDINGS – A	Attach site map showing samplir	ng point locations, transed	cts, important features,	etc.	
Hydrophytic Vegetation Present			·		
Hydric Soil Present?	Yes <u>✓</u> No	Is the Sampled Area within a V	Matland? Voc	No	
		·			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site II	D: W-j	JB-04	
Remarks: (Explain alternative pr	ocedures here or in a separate report	)			
TRC covertype is PEM.					
32 . 3. 3 p 2 . 3 . 2					
HYDROLOGY					
Watland Lludralam, Indicators					
Wetland Hydrology Indicators:		Saa		£4	
Primary indicators (minimum oi	f one is required; check all that apply)		condary Indicators (minimun	i oi two requirea)	
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage Patterns (B10) Moss Trim Lines (B16)		
<u></u> ✓ Saturation (A3)	Marl Deposits (B1	5)	Dry-Season Water Table (C2	1	
Water Marks (B1)	Hydrogen Sulfide	()dor (( 1)	Crayfish Burrows (C8)	)	
Sediment Deposits (B2)	· · · · · · · · · · · · · · · · · · ·	neres on Living Roots (C3)	Saturation Visible on Aerial	Imagery (C9)	
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plants (		
Algal Mat or Crust (B4)	<del></del>	ction in Tilled Soils (C6)	Geomorphic Position (D2)	51)	
Iron Deposits (B5)	Thin Muck Surface	e (C/)	Shallow Aquitard (D3)		
Inundation Visible on Aerial		Remarks)	Microtopographic Relief (D4	1)	
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)	•	
Field Observations:			,		
Surface Water Present?	Yes No _ <b>_/</b> Depth	(inches):			
Water Table Present?		<del></del>	tland Hydrology Present?	Yes No	
Saturation Present?		(inches):	aana nyarangy masana		
	Tes _ <b>√</b> _ No Deptil	(inches).			
(includes capillary fringe)				<del></del>	
Describe Recorded Data (stream	n gauge, monitoring well, aerial photos	s, previous inspections), if avail	able:		
Remarks:					

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test workshe Number of Dominant Sp		3	(A)
1.				Are OBL, FACW, or FAC:			(A)
2.				Total Number of Domina	nt Species	3	(B)
3.				Across All Strata:			
4.				Percent of Dominant Spe	cies That	100	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index worksh	eet:		
7.				Total % Cover of	<u>f:</u>	Multiply	<u>By:</u>
/·	0	= Total Cov		OBL species	60	x 1 =	60
Continue (Charak Charak and (Distriction of E. C.)		_ 10tal Cov	er	FACW species	15	x 2 =	30
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	20	x 3 =	60
1				FACU species	0	x 4 =	0
2			,	UPL species	0	x 5 =	0
3				Column Totals	95	(A)	150 (B)
4				Prevalence Ind		1.6	.55 (5)
5							
6.				Hydrophytic Vegetation I			
7.				1- Rapid Test for Hy		'egetation	
	0	= Total Cov	er	✓ 2 - Dominance Test			
Herb Stratum (Plot size:5 ft)		=		3 - Prevalence Index			
1. Typha angustifolia	40	Yes	OBL	4 - Morphological A			supporting
2. Lythrum salicaria	20	Yes	OBL	data in Remarks or on a	-		
3. Euthamia graminifolia	20	Yes	FAC	Problematic Hydror	, ,	-	
				¹Indicators of hydric soil			gy must be
4. <i>Poa palustris</i>	15	No	FACW	present, unless disturbed		matic	
5				Definitions of Vegetation	Strata:		
6				Tree – Woody plants 3 in.			diameter at
7				breast height (DBH), rega	ardless of h	eight.	
8				Sapling/shrub – Woody p			DBH and
9				greater than or equal to			
10				Herb – All herbaceous (n	-		gardless of
11.				size, and woody plants le			
12.				Woody vines – All woody	vines great	er than 3.	.28 ft in
	95	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-	-	Hydrophytic Vegetation	Present? \	∕es <u> </u>	lo
1.							
2							
2.							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Profile Des	cription: (Describe	to the	depth needed to	docu	ment the	indicato	r or confirm the a	absence of i	ndicators.)
Depth	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e	Remarks
0 - 20	10YR 3/2	70	7.5YR 5/8	30	С	M/PL	Clay Loa	im	
		_		_					
		_		_			-		_
				_			-		
		- —							
		- —							
¹Type: C = 0	Concentration, D =	Deplet	tion. RM = Reduce	nd Ma	trix. MS :	= Masked	Sand Grains 21	Location: Pl	= Pore Lining, M = Matrix.
Hydric Soil		p. c	,		,5				rs for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue E	elow	Surface	'S8) (I DD	R MIRA 1/ORY		•
	pipedon (A2)		Thin Dark S						Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mud						t Prairie Redox (A16) <b>(LRR K, L, R)</b>
I	en Sulfide (A4)		Loamy Gley	-			L)		Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted M						Surface (S7) <b>(LRR K, L)</b>
	d Below Dark Surf	ace (A1							alue Below Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)	ucc (/ t	Depleted D			7)			Dark Surface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Dep			,			Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Nedox Bep	(55)	113 (10)			Piedr	nont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)							Mesi	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_								Red F	Parent Material (F21)
	d Matrix (S6)							Very	Shallow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, N</b>	ИLRA 1	49B)					Othe	r (Explain in Remarks)
3Indicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must l	oe presei	nt, unless disturbe	ed or probl	ematic.
Restrictive	Layer (if observed)	:							
	Type:		None			Hydric S	Soil Present?		Yes∕_ No
	Depth (inches):					1			<del></del>
Remarks:	Э сран (шенез).					<u>I</u>			-
Remarks.									
<b></b>									



Photo of Sample Plot



Project/Site: Garnet	City/County: Cat	o, Cayuga	Sampling Date: 2020-Nov-05		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB	-04; PFO-1	
Investigator(s): Jake Brillo, Rya	an Snow, Jacob brillo	Section, Township, F	Range:		
Landform (hillslope, terrace, etc.	:.): Depression	Local relief (concave, conve	x, none): Concave	Slope (%): 0-1	
Subregion (LRR or MLRA):	LRR R	Lat: 43.1559511969	Long: -76.607438778	Datum: WGS84	
Soil Map Unit Name: Muck, D	eep, Mr		NWI classification	n: PFO	
Are climatic/hydrologic condition	ns on the site typical for this time of y		(If no, explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly d	isturbed? Are "Normal	Circumstances" present?	Yes 🟒 No	
Are Vegetation, Soil,	or Hydrology naturally prob	olematic? (If needed, e	xplain any answers in Remarks.	)	
SUMMARY OF FINDINGS – A	Attach site map showing sampl	ing point locations, trans	sects. important features. 6	etc.	
Hydrophytic Vegetation Present			<u> </u>		
Hydric Soil Present?	Yes _ <b>✓</b> _ No	Is the Sampled Area within	a Wetland? Yes	No	
Wetland Hydrology Present?	Yes _ <b>✓</b> _ No	If yes, optional Wetland Sit	e ID: W-JJI	B-∩4	
	rocedures here or in a separate repor		v-331	D-0 <del>-1</del>	
TRC covertype is PFO.					
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o  Surface Water (A1)	of one is required; check all that apply) Water-Stained Le	eaves (B9)	Secondary Indicators (minimum  Surface Soil Cracks (B6)	of two required)	
✓ High Water Table (A2)	Aquatic Fauna (B	13)	Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B	15) -	<u>✓</u> Moss Trim Lines (B16) <u>Dry-Season Water Table (C2)</u>		
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)		
Sediment Deposits (B2)	·	heres on Living Roots (C3)	✓ Saturation Visible on Aerial Ir	nagery (C9)	
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D		
Algal Mat or Crust (B4)		iction in Tilled Soils (C6)	✓ Geomorphic Position (D2)	•	
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)		
<ul><li> Inundation Visible on Aerial</li><li> Sparsely Vegetated Concave</li></ul>		Remarks)	Microtopographic Relief (D4)		
Sparsely vegetated contave	- Surface (B8)	· <del>5</del>	✓ FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	Yes No 🟒 Depth	n (inches):			
Water Table Present?	Yes 🟒 No Depth	n (inches): 8	Wetland Hydrology Present?	Yes No	
Saturation Present?	Yes 🟒 No Depth	n (inches):			
(includes capillary fringe)					
Describe Recorded Data (stream	m gauge, monitoring well, aerial photo	os, previous inspections), if a	/ailable:		
Remarks:					

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Number of Dominant S		5	(A)
. Acer rubrum	40	Yes	FAC	Are OBL, FACW, or FAC:			(/-()
. Carya cordiformis	10	Yes	FAC	Total Number of Domir Across All Strata:	nant Species	5	(B)
				Percent of Dominant S <sub> </sub> Are OBL, FACW, or FAC:		100	(A/B)
5.				Prevalence Index works			
j				- Total % Cover		Multiply I	Bv:
				- OBL species	0	x 1 =	0
	50	= Total Cov	er	FACW species	55	x 2 =	110
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	65	x 3 =	195
. Sambucus nigra	25	Yes	FACW	- FACU species	0	x 4 =	0
				- UPL species	0	x 5 =	0
				- Column Totals	120	(A)	305 (B)
k				- Prevalence Ir			303 (b)
i				•			
i.				Hydrophytic Vegetation			
7.				1- Rapid Test for H		'egetation	
	25	= Total Cov	er	2 - Dominance Te			
Herb Stratum (Plot size: 5 ft )	-	•		_ <b>✓</b> 3 - Prevalence Ind			
. Phalaris arundinacea	30	Yes	FACW	4 - Morphological			supporting
2. Euthamia graminifolia	15	Yes	FAC	data in Remarks or on			
			TAC	- Problematic Hydr			
				Indicators of hydric so		, .	gy must be
1. -		<del></del>		present, unless disturb		natic	
5.				Definitions of Vegetation			
5				Tree – Woody plants 3 i			liameter at
7				breast height (DBH), re	_	_	
3.				Sapling/shrub - Woody			BH and
9				greater than or equal to			
0				Herb – All herbaceous (	-	_	ardless of
1				size, and woody plants			
2				Woody vines – All wood	ly vines great	er than 3.2	28 ft in
	45	= Total Cov	er	height.			
Noody Vine Stratum (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetatio	n Present? \	′es N	0
·				-			
				-			
4.				-			
··		- Total Cov		=			
		= Total Cov	er				

Profile Des	cription: (Describe	to the de	epth needed to do	ocun	nent the i	ndicato	r or confirm the	absence of indicator	s.)
Depth	Matrix		Redox	Feat	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	xture	Remarks
0 - 13	10YR 2/1	95	7.5YR 4/4	5	С	PL	Mucky	Silt Loam	
13 - 20	10YR 4/4	100					Sand	y Loam	
				_					
				_					
				_					_
				_					
				_					
				_					
				_					-
	•		_	_			-		_
				_					
				_					
				_					
¹Type: C = C	Concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup>	Location: PL = Pore l	Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Pro	blematic Hydric Soils³:
Histoso			Polyvalue Bel					2 cm Muck (A	10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sur						Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Mucky			(LRR K, I	_)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					Dark Surface	(S7) <b>(LRR K, L)</b>
	d Layers (A5) d Below Dark Surfa		Depleted Mat					Polyvalue Bel	ow Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Dark 3					Thin Dark Sur	face (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depre						ese Masses (F12) <b>(LRR K, L, R)</b>
_	Gleyed Matrix (S4)		Redox Depre	33101	13 (1 0)				odplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)								(TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent M	
	urface (S7) <b>(LRR R, N</b>	AI DA 140	ופו						Dark Surface (TF12)
Dark Su	111ace (37) <b>(LKK K, K</b>	ALKA 14:	7 <b>6</b> )					Other (Explain	n in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must be	e preser	nt, unless disturb	ed or problematic.	
Restrictive I	Layer (if observed):	:							
	Type:		None			Hydric	Soil Present?	•	Yes No
	Depth (inches):								
Remarks:	,	.,							



Photo of Sample Plot



Project/Site: Garnet	City/County: Cate	City/County: Cato, Cayuga						
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-04; PFO-2					
Investigator(s): Jake Brillo, Ry	an Snow, Jacob brillo	Section, Township, Ra	nge:					
Landform (hillslope, terrace, etc	c.): Swamp	Local relief (concave, convex,	none): Concave Slope (%):	:0-1				
Subregion (LRR or MLRA):	LRR R	Lat: 43.1512719274	Long: -76.6031497859 Datum: V	VGS84				
Soil Map Unit Name: Hilton	oam, 3 to 8 percent slopes. HiB		NWI classification: None					
Are climatic/hydrologic conditio	ons on the site typical for this time of ye	ear? Yes 🟒 No	(If no, explain in Remarks.)					
Are Vegetation, Soil	, or Hydrology significantly di	sturbed? Are "Normal C	ircumstances" present? Yes 🔽 No					
Are Vegetation, Soil	, or Hydrology naturally prob	lematic? (If needed, exp	olain any answers in Remarks.)					
SUMMARY OF FINDINGS –	Attach site map showing sampli	ng point locations, transe	cts, important features, etc.					
Hydrophytic Vegetation Preser	nt? Yes 🗸 No							
Hydric Soil Present?	Yes No	Is the Sampled Area within a	Wetland? Yes <u></u> ✓ No	_				
Wetland Hydrology Present?	Yes _ <b>✓</b> _ No	If yes, optional Wetland Site	D: W-JJB-04					
	procedures here or in a separate report							
TRC covertype is PFO.								
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is required; check all that apply)  Water-Stained Lea  Aquatic Fauna (B^ Marl Deposits (B1 Hydrogen Sulfide	aves (B9) ————————————————————————————————————	Condary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)	uired)				
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospi Presence of Redu	heres on Living Roots (C3) — ced Iron (C4) —	Saturation Visible on Aerial Imagery (C9)	)				
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surfac	e (C/)	Shallow Aquitard (D3)					
Inundation Visible on Aeria		Remarks)	Microtopographic Relief (D4)					
Sparsely Vegetated Concav	e Surface (B8)		FAC-Neutral Test (D5)					
Field Observations:				· · · · · · · · · · · · · · · · · · ·				
Surface Water Present?	Yes No <u>_</u> /_ Depth	(inches):						
Water Table Present?		(inches): 6 We	etland Hydrology Present? Yes	No				
Saturation Present?		(inches):	,					
(includes capillary fringe)	.ез							
Describe Recorded Data (Strea	m gauge, monitoring well, aerial photo	s, previous irispections), ir ava	laule.					
Remarks:								

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species Th	at 5	(A)
. Fraxinus pennsylvanica	40	Yes	FACW	Are OBL, FACW, or FAC:		(A)
. Acer rubrum	20	Yes	FAC	Total Number of Dominant Speci Across All Strata:	es 5	(B)
 				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
5.				Prevalence Index worksheet:		
i				Total % Cover of:	Multiply I	Bv:
				OBL species 55	x 1 =	55
	60	= Total Cov	er	FACW species 40	x 2 =	80
apling/Shrub Stratum (Plot size: 15 ft )				FAC species 50	x 3 =	150
. <u>Viburnum dentatum</u>	20	Yes	FAC	FACU species 0		0
				UPL species 0	x 5 =	0
B				Column Totals 145	(A)	285 (B)
·				Prevalence Index = B/A	- '' -	203 (b)
				-		
				Hydrophytic Vegetation Indicator		
7.				1- Rapid Test for Hydrophyt	ic Vegetation	
· -	20	= Total Cov	er	✓ 2 - Dominance Test is >50%		
Herb Stratum (Plot size: _ 5 ft)		-		$\checkmark$ 3 - Prevalence Index is $\le$ 3.		
. Lythrum salicaria	35	Yes	OBL	4 - Morphological Adaptatio		supporting
L. Leersia oryzoides	20	Yes	OBL	data in Remarks or on a separate		
Solanum dulcamara	10	No	FAC	Problematic Hydrophytic Ve	_	
		INU	FAC	¹Indicators of hydric soil and wet	, .	gy must be
				present, unless disturbed or prol	olematic	
5.				Definitions of Vegetation Strata:		
5.				Tree – Woody plants 3 in. (7.6 cm		liameter a
7				breast height (DBH), regardless o	-	
3				Sapling/shrub – Woody plants les		BH and
).				greater than or equal to 3.28 ft (1		
0				Herb – All herbaceous (non-wood		ardless of
1				size, and woody plants less than		
2				Woody vines – All woody vines gr	eater than 3.	28 ft in
	65	= Total Cov	er	height.		
Noody Vine Stratum (Plot size: <u>30 ft</u> )		=		Hydrophytic Vegetation Present	Yes 🔽 N	0
·				-		
·				-		
·				•		
ł				-		
	0	_= Total Cov	er			

	ription: (Describe to	o the d	•			indicator o	r confirm the a	bsence of indicato	rs.)
Depth _	Matrix	0/	Redox			1002	Tove	tura	Domarks
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u> %</u>	Type <sup>1</sup>	Loc <sup>2</sup>		ture	Remarks
0 - 20	10YR 2/1	95	7.5YR 4/6	5	C	PL	Mucky S	ilt Loam	
				- —				_	
-									
-									
-									
				_				_	
		· — ·							
1T			DM - Dadwas		in MC -	Maaliad C	and Cusins 21	anations DI — Daws	Liming M = Matrix
	oncentration, D = D	pepietic	on, RIVI = Reduced	ıwatı	rix, IVIS =	Masked S	and Grains. <sup>2</sup> L		
Hydric Soil I								Indicators for Pr	oblematic Hydric Soils³:
Histosol	-		Polyvalue Be					2 cm Muck (A	A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark Su				149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Black His			Loamy Muck			(LRR K, L)		5 cm Mucky l	Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4) d Layers (A5)		Loamy Gleye					Dark Surface	
	d Layers (A5) d Below Dark Surfa	co (A11	Depleted Ma						low Surface (S8) <b>(LRR K, L)</b>
	irk Surface (A12)	Ce (ATT	Depleted Da			١		Thin Dark Su	rface (S9) <b>(LRR K, L)</b>
	lucky Mineral (S1)		Redox Depre			,		Iron-Mangan	ese Masses (F12) <b>(LRR K, L, R)</b>
	leyed Matrix (S4)		Redox Depre	233101	13 (1 0)			Piedmont Flo	oodplain Soils (F19) (MLRA 149B)
-	•							Mesic Spodio	(TA6) <b>(MLRA 144A, 145, 149B)</b>
_	edox (S5)							Red Parent N	
	Matrix (S6)							Very Shallow	Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b>	LKA 14	9B)					Other (Explai	in in Remarks)
3Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e present,	unless disturbe	ed or problematic.	
Restrictive L	.ayer (if observed):								
	Type:		None			Hydric S	oil Present?		Yes No
	Depth (inches):			-					
Remarks:	-1- (								
incinarios.									



Photo of Sample Plot



Project/Site: Garnet		City/County: Cato	o, Cayuga		Sampling Date: 2020-Nov-05		
Applicant/Owner: Ne	xtEra		State: NY	Sa	mpling Point: W-JJB-0	04; PSS-1	
Investigator(s):Jake B	rillo, Ryan Snow, Jacob	brillo	Section, Township	, Range:			
Landform (hillslope, terr	race, etc.): Depres	ssion	Local relief (concave, conv	vex, none): C	oncave	Slope (%): 1-10	
Subregion (LRR or MLRA	N): LRR R		Lat: 43.147363815	57 <b>Long:</b> -7	6.6004465935 I	Datum: WGS84	
Soil Map Unit Name: _	Cazenovia silt loam, 8	to 14 percent slopes.			NWI classification:	PEM	
Are climatic/hydrologic	conditions on the site	typical for this time of ye	ar? Yes No	o (If no, e	explain in Remarks.)		
Are Vegetation, S	Soil, or Hydro	logy significantly dis	sturbed? Are "Norm	nal Circumstar	nces" present?	es 🟒 No	
Are Vegetation, S	Soil, or Hydro	logy naturally probl	lematic? (If needed,	, explain any a	answers in Remarks.)		
SUMMARY OF FINDI	NGS – Attach site r	map showing sampli	ng point locations, tra	nsects, imp	ortant features, et	tc.	
Hydrophytic Vegetation			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
, , , ,		Yes No	la de Carrela d'Arra criste	: 144 - 41 1 <b>2</b>	V	. No	
Hydric Soil Present?		Yes No	Is the Sampled Area with		Yes _	<u> </u>	
Wetland Hydrology Pre	sent?	Yes No	If yes, optional Wetland S	Site ID:	W-JJB-	-04	
Remarks: (Explain alter	native procedures her	e or in a separate report	)				
TRC covertype is PSS.							
The covertype is 1 33.							
HYDROLOGY							
Wetland Hydrology Indi							
Primary Indicators (min	imum of one is requir	ed; check all that apply)		Secondary Ir	ndicators (minimum o	of two required)	
Surface Water (A1)		Water Stained Lea	2V05 (RO)	Surface S	Soil Cracks (B6)		
Surface Water (A1) High Water Table (A	2)	Water-Stained Lea Aquatic Fauna (B1		Drainage	Patterns (B10)		
✓ Saturation (A3)	۷)	Aquatic Fauria (B1		Moss Trir	m Lines (B16)		
Water Marks (B1)		Hydrogen Sulfide		Dry-Seas	on Water Table (C2)		
Sediment Deposits (	(B2)		neres on Living Roots (C3)	-	Burrows (C8)		
Drift Deposits (B3)	.02)	Presence of Redu	•	Saturatio	on Visible on Aerial Im	agery (C9)	
Algal Mat or Crust (E	34)		ction in Tilled Soils (C6)		or Stressed Plants (D1	)	
Iron Deposits (B5)	· ·,	Thin Muck Surface			ohic Position (D2)		
•	n Aerial Imagery (B7)	Other (Explain in F	• •		Aquitard (D3)		
	Concave Surface (B8)		,		ographic Relief (D4)		
				∕ FAC-Neu	tral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No <u>✓</u> Depth	(inches):	_			
Water Table Present?	Yes	No Depth	(inches):	Wetland Hyd	drology Present?	Yes No	
Saturation Present?	Yes	No Depth	(inches): 1				
(includes capillary fring	e)			_			
		itoring well perial photo	s, previous inspections), if	available:			
Describe Recorded Dat	a (3ti carri gauge, mori	itoring well, aeriai prioto.	s, previous irispections, ir	available.			
Remarks:							

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant 9		2	(4)
1.	-			Are OBL, FACW, or FAC	•	3	(A)
2.				Total Number of Domi	nant Species		
3.		<del></del>		Across All Strata:		3	(B)
				Percent of Dominant S	pecies That	400	(4 (5)
4				Are OBL, FACW, or FAC	:	100	(A/B)
5				Prevalence Index work	sheet:		
6				Total % Cover	of:	Multiply	Bv:
7				OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	50	x 2 =	100
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species	80	x3=	240
1. Cornus amomum	50	Yes	FACW	-		_	
2.				FACU species	0	x 4 =	0
3.				UPL species	0	x 5 = _	0
4.				Column Totals	130	(A)	340 (B)
5.				Prevalence In	ndex = B/A =	2.6	<u> </u>
· · · · · · · · · · · · · · · · · · ·				Hydrophytic Vegetation	n Indicators:		
6.				1- Rapid Test for I	Hydrophytic V	egetation	
7				✓ 2 - Dominance Te		Ü	
	50	= Total Cov	er	✓ 3 - Prevalence Inc			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological		(Provide	supporting
1. Euthamia graminifolia	60	Yes	FAC	data in Remarks or on			supporting
2. Rumex crispus	20	Yes	FAC	Problematic Hydr			nlain)
3.				¹Indicators of hydric so			
4.				present, unless disturb		-	gy must be
5.				·		Hatic	
6.				Definitions of Vegetation			
				Tree – Woody plants 3			diameter at
7				breast height (DBH), re	_	_	
8.				Sapling/shrub - Woody			DBH and
9				greater than or equal t			
10				Herb – All herbaceous			gardless of
11				size, and woody plants			00.5
12.				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	80	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		•		Hydrophytic Vegetation	n Present? \	∕es <u> </u>	lo
1.							
2							
3.							
		<del></del> -					
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

	ription: (Describe	to the	•			indicator	or confirm the al	bsence of	indicators.)
Depth _	Matrix		Redo						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Texture		Remarks
0 - 20	5YR 3/2	95	7.5YR 5/8	5	C	M/PL	Clay Loar	<u>n</u>	
		- —							
-									
-									
-									
-									
-				_					
				-					-
				-					
	5			_			5 16 : 31		
	oncentration, D =	Deplet	ion, RM = Reduce	d Ma	itrix, MS	= Masked	Sand Grains. <sup>2</sup> Li		= Pore Lining, M = Matrix.
Hydric Soil I								Indicato	rs for Problematic Hydric Soils³:
Histosol			•				R, MLRA 149B)	2 cm	Muck (A10) (LRR K, L, MLRA 149B)
-	ipedon (A2)		Thin Dark S					Coas	t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Muc	-			.)	5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gley			1		Dark	Surface (S7) (LRR K, L)
	d Layers (A5)	252 (	Depleted M					Poly	alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa rk Surface (A12)	ace (A I	Depleted Da			7)		Thin	Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depr		-	/)		Iron-	Manganese Masses (F12) (LRR K, L, R)
			Kedox Depi	62210	1115 (FO)			Piedı	mont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)							Mesi	c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	edox (S5)							Red	Parent Material (F21)
	l Matrix (S6)							Very	Shallow Dark Surface (TF12)
Dark Sui	rface (S7) <b>(LRR R, N</b>	ИLRA 1	49B)					Othe	r (Explain in Remarks)
3Indicators	of hydrophytic veg	getation	n and wetland hyd	drolo	gy must l	be presen	t, unless disturbe	d or probl	ematic.
Restrictive L	ayer (if observed):	•							
	Туре:		None	_		Hydric S	oil Present?		Yes No
	Depth (inches):								
Remarks:						1			