

Project/Site: CHPE Package 6	City/County: Coxsackie Sampling Date: 12/2/21
Applicant/Owner: <u>CHA</u>	State: NY Sampling Point: XB-2
Investigator(s): <u>Nick Dominic/Justin Will</u>	amsSection, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, ML	RA 144B Lat: 42.35641 Long: -73.81606 Datum: NAD83
Soil Map Unit Name:	NWI classification: PEM
Are climatic / hydrologic conditions on th	e site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>N</u> , or H	lydrology <u>N</u> significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or H	lydrology <u>N</u> naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Att	ach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes     X     No     Is the Sampled Area       Yes     X     No     within a Wetland?     Yes     X     No       Yes     X     No     If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Wetland XB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)

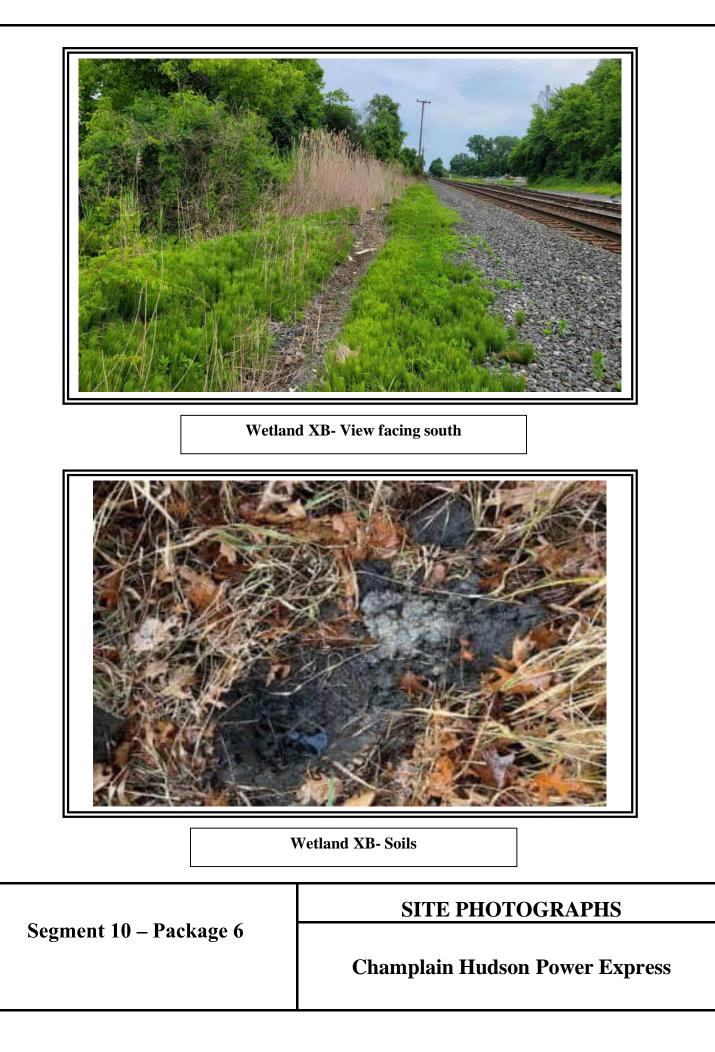
wettand Hydrology indicators.	Secondary indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) X Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 3	
Water Table Present? Yes X No Depth (inches): 6	
Saturation Present? Yes X No Depth (inches): 0 Wetlan	d Hydrology Present? Yes X No
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:
	available:
	available:
	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:
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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:

Sampling Point: XB-2

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3.       4.				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )	1			OBL species 0 x 1 = 0
1. Cornus sericea	20	Yes	FACW	FACW species 110 x 2 = 220
2				FAC species 0 x 3 = 0
3				FACU species <u>0</u> x 4 = <u>0</u>
4				UPL species 0 x 5 = 0
5				Column Totals: 110 (A) 220 (B)
6.		<u> </u>	_	Prevalence Index = B/A = 2.00
7				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Phragmites australis	90	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
3				
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10 11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
12	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> ) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
		·		
23.				Hydrophytic
				Vegetation Proceet? Yes Y No
4.				Present? Yes <u>x</u> No
Remarks: (Include photo numbers here or on a sepa		=Total Cover		
	undo o,			

SOIL	
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		to the de				ator or c	onfirm the absence o	f indicators.)
Depth	Matrix	0/		x Featur		1 2	Tautum	Demedia
(inches) 0-4	Color (moist)	<u>%</u> 75	Color (moist)	<u>%</u> 25	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks Prominent
	10yr 3/1		7.5yr 5/4	25			Loamy/Clayey	
4-16	10yr 2/1	60	7.5yr 5/4	40			Loamy/Clayey	Prominent
							·	
<sup>1</sup> Type: C=Co	ncentration, D=Dep	letion, RM	/I=Reduced Matrix, I	MS=Mas	ked San	d Grains	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		ce (S8) (	LRR R,		ıck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 1498	,				rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	n Sulfide (A4)		Thin Dark Surf					ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ie Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky					rk Surface (S9) (LRR K, L)
	Below Dark Surface	ə (A11)	Loamy Gleyed			, _,		nganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		X Depleted Matr	ix (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		Redox Dark S		-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5) Matrix (S6)		Redox Depres Marl (F10) (LR	•	8)			allow Dark Surface (F22) xplain in Remarks)
Dark Sur	. ,			.ix ix, ∟)				
<sup>3</sup> Indicators of	hydrophytic vegetat	tion and v	vetland hydrology m	ust be pi	resent, u	nless dis	turbed or problematic.	
	ayer (if observed):							
Type: _								
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



Project/Site: CHPE Package 6	City/County: Coxsackie / Green County Sampling Date: 06/21/22						
Applicant/Owner: TDI	State: NY Sampling Point: WET XB						
Investigator(s): C.Scrivner and J.Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u>						
Subregion (LRR or MLRA): LRR R Lat: 42.35							
Soil Map Unit Name: Kingsbury and Rhinebeck soils, 0 to 3 pe							
· · · · · · · · · · · · · · · · · · ·							
Are climatic / hydrologic conditions on the site typical for this tim							
Are Vegetation, Soil, or Hydrologysignif							
Are Vegetation, Soil, or Hydrologynatura	ally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separat	e report.)						
Shrub swamp.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that a Surface Water (A1) Water-Stair	apply) Surface Soil Cracks (B6) ed Leaves (B9) Drainage Patterns (B10)						
High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)							
	ulfide Odor (C1) Crayfish Burrows (C8)						
	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
	Reduced Iron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)							
	Surface (C7) Shallow Aquitard (D3)						
	ain in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X De	pth (inches):						
	pth (inches):						
	pth (inches): Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aeria	l photos, previous inspections), if available:						
Remarks:							
Remarks.							

Sampling Point: WET XB

Tree Stratum (Plot size: 30')	Absolute % Cover		Indicator Status	Dominance Test worksheet:
Rhus typhina	5	Yes	UPL	Number of Dominant Species
<u>.</u>				That Are OBL, FACW, or FAC: 5 (A)
3.				Total Number of Dominant
4.		_		Species Across All Strata: <u>6</u> (B)
5				Percent of Dominant Species
б				That Are OBL, FACW, or FAC: 83.3% (A/E
7				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species <u>30</u> x 1 = <u>30</u>
Cornus amomum	65	Yes	FACW	FACW species 115 x 2 = 230
2. Rhus typhina	5	No	UPL	FAC species 25 x 3 = 75
3				FACU species 0 x 4 = 0
4				UPL species 10 x 5 = 50
5				Column Totals: 180 (A) 385 (B
S				Prevalence Index = B/A = 2.14
7				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
. Solidago gigantea	50	Yes	FACW	X_3 - Prevalence Index is $\leq 3.0^1$
2. <u>Carex stipata</u>	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. <u>Carex bebbii</u>	15	Yes	OBL	data in Remarks or on a separate sheet)
4. Equisetum arvense	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Geum canadense	10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
δ				present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
3				Tree – Woody plants 3 in. (7.6 cm) or more in diame
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft i
1. Vitis riparia	5	Yes	FAC	height.
2.				
3				Hydrophytic Vegetation
				Present? Yes X No
4	5	=Total Cover		

### SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	ment th	e indicat	tor or co	nfirm the absence of i	ndicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 2/1	93	10YR 4/4	5	С	М	Loamy/Clayey	Distinct redox concentrations
			10YR 3/6	2	С	PL		Prominent redox concentrations
7-14	10YR 4/1	60	10YR 2/1	10	С	М	Loamy/Clayey	Faint redox concentrations
			10YR 5/4	30	С	М		Distinct redox concentrations
14-18	10YR 5/1	60	10YR 5/8	30	С	М	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	5	С	М		Distinct redox concentrations
			7.5YR 4/6	5	С	М		Prominent redox concentrations
1 - 0.0								
Hydric Soil I		etion, RN	Reduced Matrix, M	S=Mask	ed Sand	Grains.		.=Pore Lining, M=Matrix. r Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfac	ce (S8) (L	.RR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B		( )(	,		airie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	49B) 5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	11) ( <b>LRF</b>	R K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	(F1) ( <b>LRF</b>	R K, L)		s Surface (S9) (LRR K, L)
·	Below Dark Surface	e (A11)	Loamy Gleyed		F2)			ganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		X Depleted Matrix					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		X Redox Dark Su					odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark		. ,			ent Material (F21)
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LR	`	3)			llow Dark Surface (F22) (plain in Remarks)
	face (S7)			K K, ⊑)				
		ion and w	etland hydrology mus	st be pre	esent, unl	ess distu	rbed or problematic.	
Type:	.ayer (if observed):							
Depth (ir	nches):						Hydric Soil Present	t? Yes X No
Remarks:							-	
. tomanio								
1								

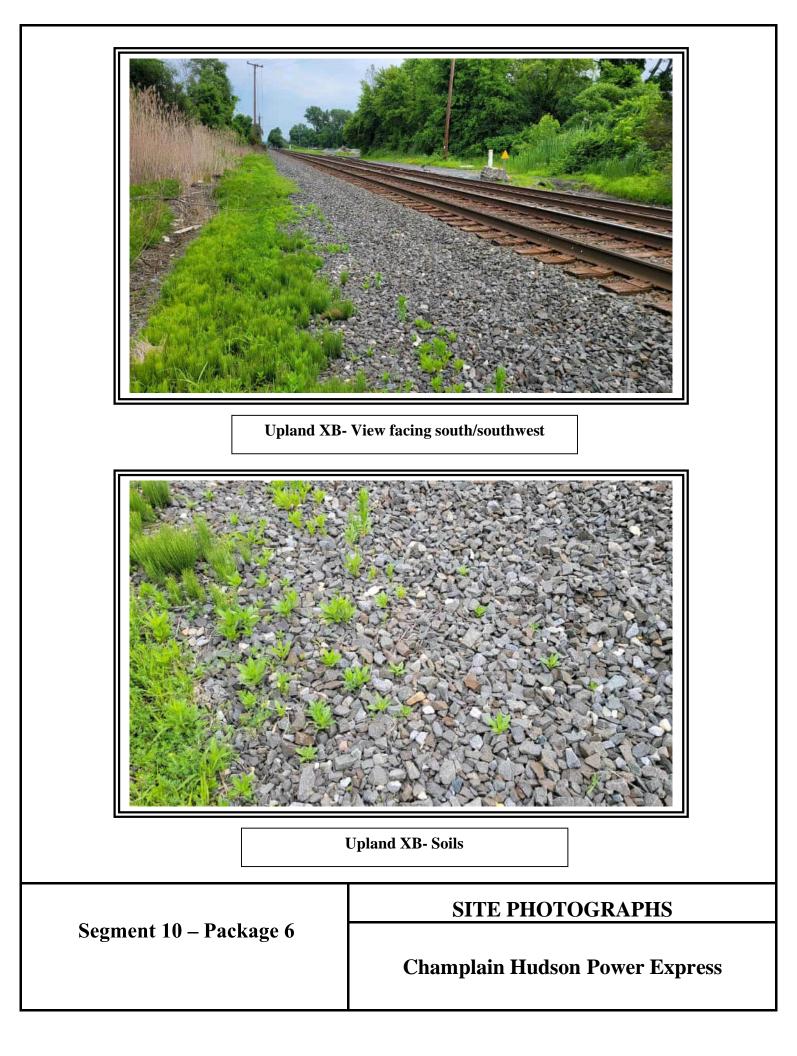


Project/Site: CHPE Package 6		City/County: Coxsackie / Green County	Sampling Date: 06/21/22
Applicant/Owner: TDI		State: NY	Sampling Point: UPL XB-4
Investigator(s): C.Scrivner and J. Gre	eaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): F		elief (concave, convex, none): <u>None</u>	
Subregion (LRR or MLRA): LRR R	Lat: 42.35081	Long: -73.81698	Datum: WGS 84
Soil Map Unit Name: Shaker very fir		NWI classification	
Are climatic / hydrologic conditions on			explain in Remarks.)
	or Hydrology significantly disturb		
	or Hydrology naturally problema		
		pling point locations, transects, i	
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area	•• • •
Hydric Soil Present?	Yes No X	within a Wetland? Yes	No X
Wetland Hydrology Present? Remarks: (Explain alternative proce	Yes <u>No X</u>	If yes, optional Wetland Site ID:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one		Surface Soil Crac	· ,
Surface Water (A1)	Water-Stained Leaves (E		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (	, ,
Saturation (A3)	Marl Deposits (B15)	Dry-Season Wate	
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor ( Oxidized Rhizospheres o		on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro		
Algal Mat or Crust (B4)	Recent Iron Reduction in		( )
Iron Deposits (B5)	? Shallow Aquitard		
Inundation Visible on Aerial Imag	Thin Muck Surface (C7) gery (B7) Other (Explain in Remark		
Sparsely Vegetated Concave Su	irface (B8)	FAC-Neutral Test	(D5)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes			
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, prev	vious inspections), if available:	
Remarks:			

Sampling Point: UPL XB-4

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3.       4.				Total Number of Dominant Species Across All Strata:2_(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 15 x 3 = 45
3.				FACU species 40 x 4 = 160
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 55 (A) 205 (B)
6.				Prevalence Index = $B/A = 3.73$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-10101 00101		2 - Dominance Test is >50%
	35	Voc	FACU	$3$ - Prevalence Index is $\leq 3.0^{1}$
1. Lotus corniculatus		Yes		
2. Equisetum arvense			FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. <u>Taraxacum officinale</u>	5	No	FACU	
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8		<b>.</b> . <u> </u>		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	55	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		-10101 00101		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2		·		Hydrophytic
3.				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

(inches)       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks		ription: (Describe	to the dep				or or co	nfirm the absen	ce of indicat	ors.)	
Image: Section of the section of th	Depth	Matrix									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Inon-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Depth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes			·								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes			·								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes			·								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes					·						
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes			·		·						
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes			·		·						
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Piepth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes	<sup>1</sup> Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, N	1S=Mask	ed Sand	Grains.	<sup>2</sup> Locati	on: PL=Pore	Lining, M=Ma	trix.
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       0       Hydric Soil Present?       Yes       No       X			,	,							
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       0       Hydric Soil Present?       Yes       No       X	-			Polyvalue Belo	ow Surfa	ce (S8) (L	.RR R.			-	
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, R)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Redox In Remarks)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes							,				
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Depth (inches):       0         Depth (inches):       0       Hydric Soil Present?       Yes       No       X					,		MIRA 1				
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       Rock/railroad ballast       Depleted Dalast         Depth (inches):       0       Hydric Soil Present?       Yes NoX											
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Very Shallow Dark Surface ballast         Depth (inches):       0       Hydric Soil Present?       Yes No X											
Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       If observed):       Type:         Restrictive Layer (if observed):       0       Hydric Soil Present?       Yes No X			<i></i>				( K, L)				
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       Rock/railroad ballast         Depth (inches):       0			e (A11)			F2)			-		
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       Rock/railroad ballast         Depth (inches):       0	Thick Da	rk Surface (A12)		Depleted Matr	ix (F3)			Pie	edmont Flood	plain Soils (F1	9) ( <b>MLRA 149B</b>
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       Rock/railroad ballast         Depth (inches):       0	Sandy M	ucky Mineral (S1)		Redox Dark S	urface (F	6)		Me	sic Spodic (T	A6) (MLRA 14	44A, 145, 149B)
Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Rock/railroad ballast         Depth (inches):       0       Hydric Soil Present?       Yes       No       X	Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Re	d Parent Mat	erial (F21)	
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. <b>Restrictive Layer (if observed):</b> Type:       Rock/railroad ballast         Depth (inches):       0         Hydric Soil Present?       Yes	Sandy Re	edox (S5)		Redox Depres	sions (F	8)		Ve	ry Shallow Da	ark Surface (F	22)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.          Restrictive Layer (if observed):         Type:       Rock/railroad ballast         Depth (inches):       0	Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Ot	her (Explain i	n Remarks)	
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.          Restrictive Layer (if observed):       Type:       Rock/railroad ballast         Depth (inches):       0       Hydric Soil Present?       Yes NoX	Dark Sur	face (S7)									
Restrictive Layer (if observed):       Rock/railroad ballast         Type:       Rock/railroad ballast         Depth (inches):       0         Hydric Soil Present?       Yes         No       X		()									
Restrictive Layer (if observed):       Rock/railroad ballast         Type:       Rock/railroad ballast         Depth (inches):       0         Hydric Soil Present?       Yes         No       X	<sup>3</sup> Indicators of	hydrophytic yeartat	ion and w	etland bydrology mu	ist ha nra	sont unl	oee dietu	rhed or problems	tic		
Type:         Rock/railroad ballast           Depth (inches):         0           Hydric Soil Present?         Yes						Joent, uni	033 01310				
Depth (inches):         0         Hydric Soil Present?         Yes         No         X		• • •	ad ballaat								
Remarks:	Depth (in	ches):	0					Hydric Soil F	resent?	Yes	<u>No X</u>
	Remarks:										



Project/Site: CHPE- Jingle Bell Lane- MP 211.7	City/County: Coxsackie/ Greene	Sampling Date: 3/30/2023
Applicant/Owner: CHPE	State:	NY Sampling Point: G-J-2-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Coxsackie	
Landform (hillside, terrace, etc.): Depressions	Local relief (concave, convex, none): <u>Concave</u>	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 21' 20.09	Long: 73° 49' 04.97"	Datum:
Soil Map Unit Name: Shaker very fine sandy loam	NWI classif	ication: PEM
Are climatic / hydrologic conditions on the site typical for this time of $\boldsymbol{y}$	year? Yes X No (If no, explain	in Remarks.)
Are Vegetation X_, Soil, or Hydrology X_significant	ntly disturbed? Are "Normal Circumstances" pro	esent? Yes No X
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	
Hydric Soil Present? Yes X No	within a Wetland? Yes X	No
Wetland Hydrology Present?   Yes X   No	If yes, optional Wetland Site ID:	

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

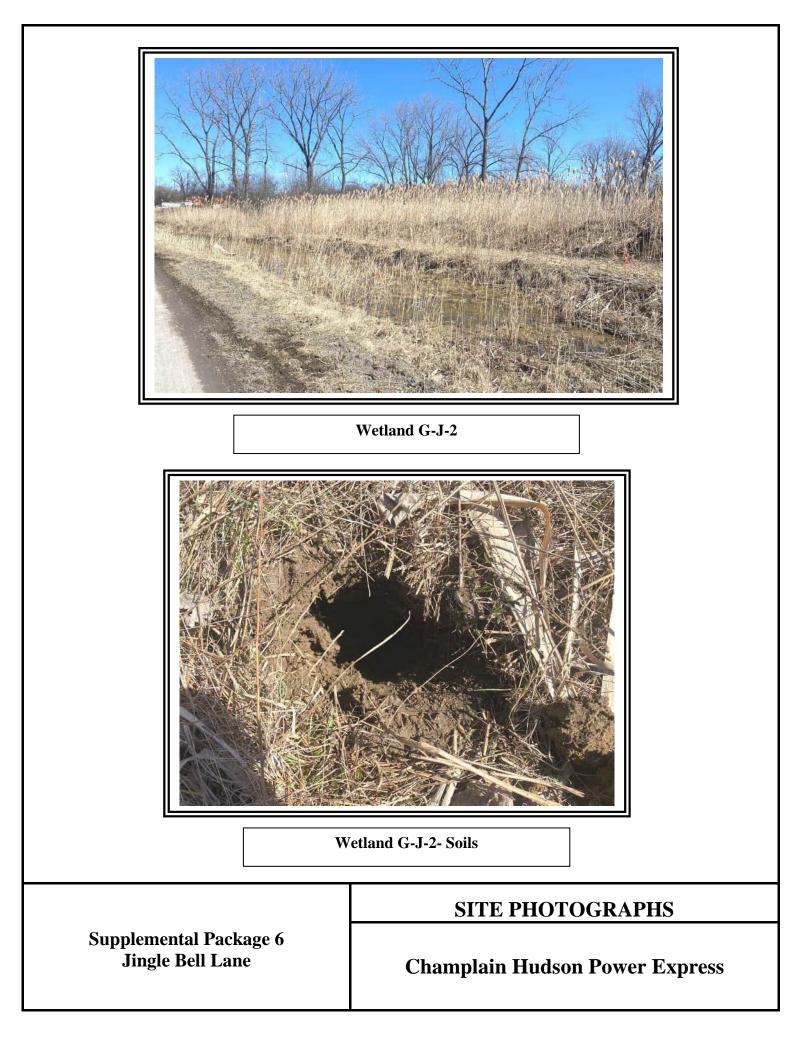
The ditches/ waterways had been recently cleaned out of mud, phragmities growth, and was dumped immediately next to the channel. This was an old factory site that is currently being used as storage of vehicles and other machinery.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 6	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0 Wetland H	ydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	ailable:
Remarks:	

Sampling	Point:	G-J-2-Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	10	Yes	FAC	
2				Number of Dominant Species         That Are OBL, FACW, or FAC:       4         (A)
3				Total Number of Dominant Species Across All Strata:4(B)
5		·		Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Acer negundo	5	Yes	FAC	FACW species x 2 =
2. Rhamnus cathartica	5	Yes	FAC	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Phragmites australis	65	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	15	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Onoclea sensibilis	10	No	FACW	data in Remarks or on a separate sheet)
4.		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7		·		Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		. <u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH
11		. <u> </u>		and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15' )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

	escription: (Describe	to the d	-			or or con	firm the absence	of indicato	ors.)
Depth (inclusion)	Matrix			x Featur		12	Tarton		Develop
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-8	10YR 3/2	100					Loamy/Clayey		
8-14	10YR 3/2	95	10YR 5/6	5	C	M	Loamy/Clayey	Promi	nent redox concentrations
	Concentration, D=Dep	letion, R	M=Reduced Matrix, C	S=Cove	red or Coa	ted Sanc			=Pore Lining, M=Matrix.
-	oil Indicators:								atic Hydric Soils <sup>3</sup> :
	sol (A1)		Polyvalue Below	v Surface	e (S8) ( <b>LR</b>	R R,			RR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)	(00)					x (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)		Thin Dark Surfa					-	r Peat (S3) ( <b>LRR K, L, R</b> )
	ogen Sulfide (A4)		High Chroma Sa Loamy Mucky N					urface (S8) ( <b>LRR K, L</b> )	
	fied Layers (A5) eted Below Dark Surfac	م (۵11)	Loamy Gleyed N		<b>(, Ε</b> )			(S9) ( <b>LRR K, L</b> ) asses (F12) ( <b>LRR K, L, R</b> )	
	Dark Surface (A12)	e (A11)	Depleted Matrix	2)			-	n Soils (F19) ( <b>MLRA 149B</b> )	
	y Mucky Mineral (S1)		X Redox Dark Sur		3				) (MLRA 144A, 145, 149B)
	y Gleyed Matrix (S4)		Depleted Dark S		-			ent Materia	
	y Redox (S5)		Redox Depressi					Surface (TF12)	
	ped Matrix (S6)		Marl (F10) (LRR			Other (Explain in Remarks)			
	Surface (S7)		、 , ,						
<sup>3</sup> Indicators	s of hydrophytic vegetat	tion and	wetland hydrology mu	ist be pro	esent, unle	ess distur	bed or problematic		
	e Layer (if observed):								
Type:									
	inches):						Hydric Soil Pre	esent?	Yes X No
Remarks:							1		
		orthcentr	al and Northeast Regi	onal Sup	oplement \	/ersion 2.	.0 to reflect the NR	CS Field In	dicators of Hydric Soils
version 7.	0 March 2013 Errata. (ł	http://ww	w.nrcs.usda.gov/Inter	net/FSE		ENTS/nrc	s142p2_051293.dc	ocx)	-



Project/Site: CHPE- Jingle Bell Lane- MP 211.7	_ City/County: Coxsackie/ Gre	eene Sam	pling Date: <u>3/30/20</u>	)23			
Applicant/Owner: CHPE		State: NY	Sampling Point:	G-J2-UP			
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie					
Landform (hillside, terrace, etc.): Depressions Local relief (concave, convex, none): Concave Slope (%):							
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 21' 20.09"	Long: 7	3° 49' 04.97"	Datum:				
Soil Map Unit Name: Shaker very fine sandy laom		NWI classification:	None				
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes <u>X</u> No	(If no, explain in Rem	narks.)				
Are Vegetation, Soil, or Hydrologysignifican	tly disturbed? Are "Normal	Circumstances" present?	Yes X N	o			
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, e	explain any answers in Ren	marks.)				
SUMMARY OF FINDINGS – Attach site map showing	sampling point location	ons, transects, impo	ortant features,	etc.			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)							

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leave	es (B9)	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Sulfide Oc	lor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizospher	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	d Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (	C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	marks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	Wetland Hyd	Irology Present? Yes No X			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if availa	able:			
Remarks:					

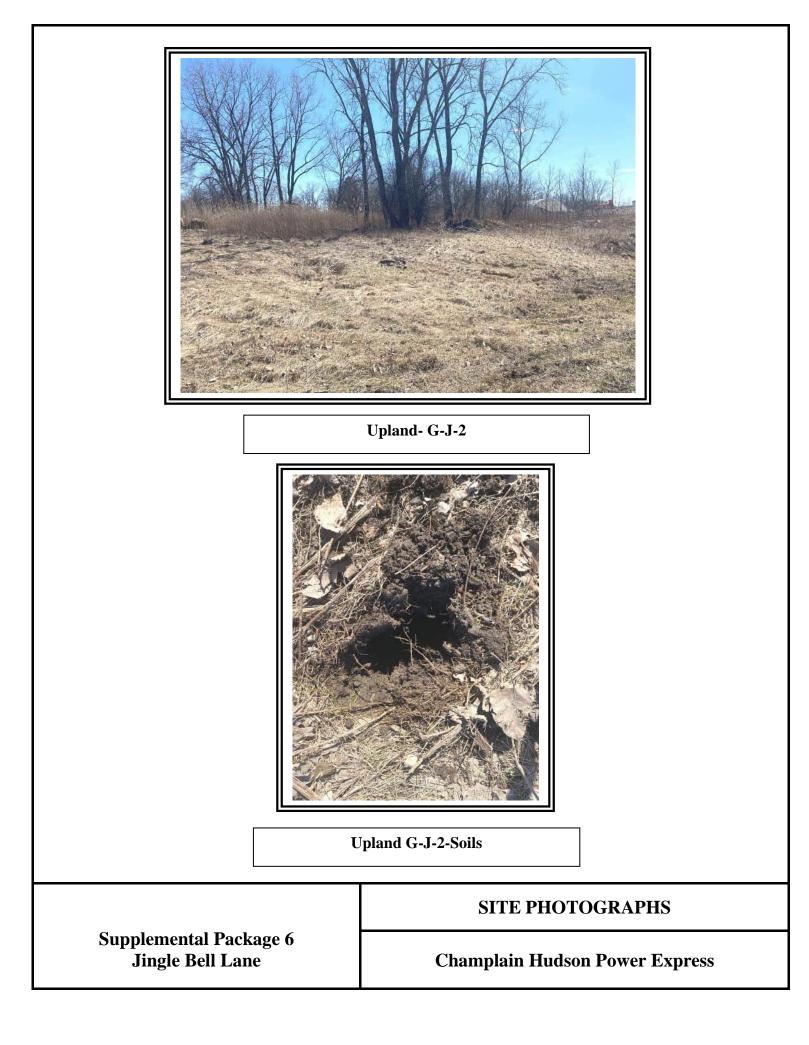
Sampling Point: G-J2-UP

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	10	Yes	FACU	
2. Populus deltoides	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC:50.0% (A/B)
7.				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1. Rhamnus cathartica	5	Yes	FAC	FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Poa pratensis	65	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. <i>Phragmites australis</i>	10	No	FACW	data in Remarks or on a separate sheet)
4. Daucus carota	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7		<u> </u>		Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10		. <u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12		· · · · · · · · · · · · · · · · · · ·		Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1		·		height.
2		·		Hydrophytic
3		·		Vegetation
4		·		Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

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SOIL
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Profile De	escription: (Describe	e to the de	epth needed to docu	ment th	e indicat	or or con	firm the absence of indi	cators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	10YR 2/2	100					Loamy/Clayey	
	1011(2/2						Loamy/olaycy	
1 <u>т</u>					<u> </u>			
	Concentration, D=De	pletion, RI	M=Reduced Matrix, C	S=Cove	red or Coa	ated Sand		PL=Pore Lining, M=Matrix.
-	oil Indicators:		Debaselus Deba	0				lematic Hydric Soils <sup>3</sup> :
	sol (A1)		Polyvalue Below	Surface	e (S8) (LR	KR,		0) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)	(00) (				edox (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)		Thin Dark Surfac					at or Peat (S3) ( <b>LRR K, L, R</b> )
	ogen Sulfide (A4)		High Chroma Sa					w Surface (S8) (LRR K, L)
	fied Layers (A5)		Loamy Mucky M			<b>K</b> , L)		ice (S9) ( <b>LRR K, L</b> )
	eted Below Dark Surface	ce (A11)	Loamy Gleyed N	-	2)			e Masses (F12) ( <b>LRR K, L, R</b> )
	Dark Surface (A12)		Depleted Matrix		,			Iplain Soils (F19) ( <b>MLRA 149B</b> )
	y Mucky Mineral (S1)		Redox Dark Sur	•	,			ΓΑ6) ( <b>MLRA 144A, 145, 149B</b> )
	y Gleyed Matrix (S4)		Depleted Dark S	,	,		Red Parent Mat	
	y Redox (S5)		Redox Depressi	. ,				ark Surface (TF12)
	bed Matrix (S6)		Marl (F10) ( <b>LRR</b>	<b>K</b> , L)			Other (Explain i	n Remarks)
Dark	Surface (S7)							
31 11 1	<b>.</b>							
	s of hydrophytic vegeta		wetiand hydrology mu	st be pre	esent, unio	ess distur	bed or problematic.	
_	ve Layer (if observed)	):						
Type: _								
Depth (	inches):						Hydric Soil Present?	Yes <u>No X</u>
Remarks:							-	
								ld Indicators of Hydric Soils
version 7.	0 March 2013 Errata.	(http://www	v.nrcs.usda.gov/Interr	net/FSE_	DOCUM	ENTS/nrc	s142p2_051293.docx)	
1								



Project/Site: CHPE- Jingle Bell Lane- MP 211.7	City/County: Coxsackie/ Green	ie Sa	mpling Date: <u>3/30/2023</u>
Applicant/Owner: CHPE		State: NY	Sampling Point: G-J-1-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Co	oxsackie	
Landform (hillside, terrace, etc.): Depressions	ocal relief (concave, convex, nor	ne): Concave	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 42° 21' 19.84"	Long: <u>73° 4</u>	49' 09.94"	Datum:
Soil Map Unit Name: Udorthents, loamy, gravelly silt loam		NWI classification	on: PEM
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes <u>X</u> No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrologysignificant	ly disturbed? Are "Normal Cir	rcumstances" presen	t? Yes X No
Are Vegetation, Soil, or Hydrologynaturally p	oroblematic? (If needed, expl	ain any answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations	s, transects, imp	portant features, etc.

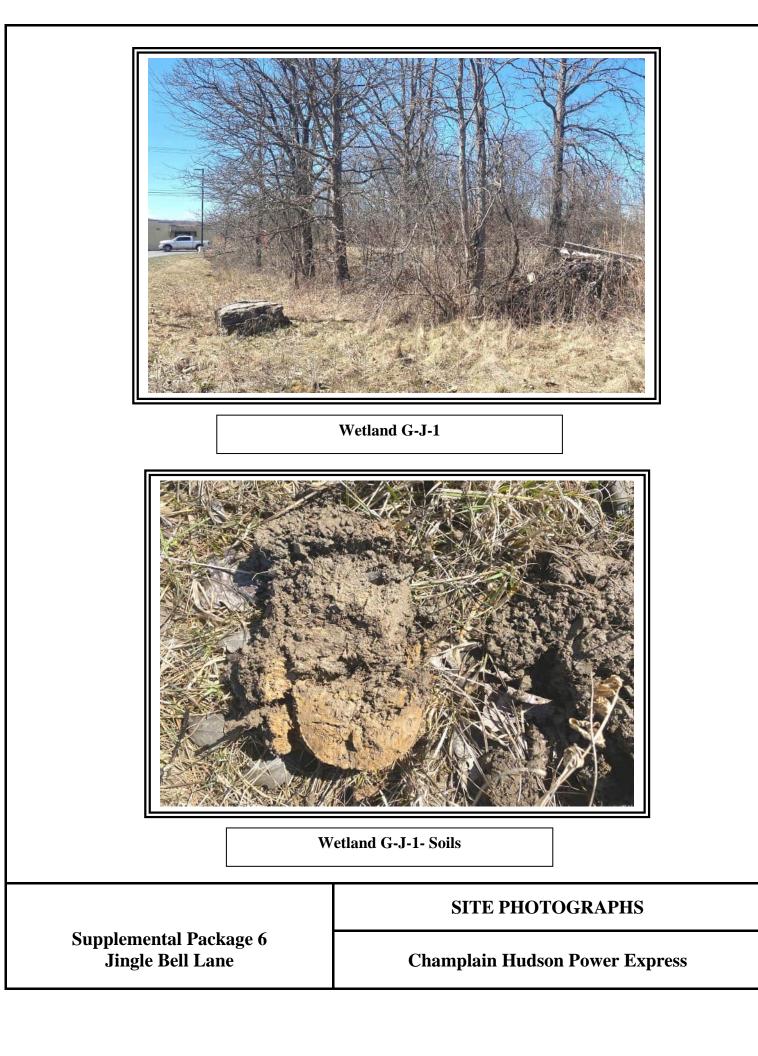
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu	ures here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 3	
Water Table Present?     Yes     No     X     Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
	ctions), if available:
	ctions), if available:
	stions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	ctions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	ctions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	otions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	ctions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	ctions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	ctions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	ctions), if available:

Sampling Point: G-J-1-Wet

Tree Stratum(Plot size: 30')% CoverSpecies?StatusDominance Test worksheet:1.Fraxinus americana5YesFACUNumber of Dominant Species2.Ulmus americana5YesFACWThat Are OBL, FACW, or FAC: 6(A)3.Populus deltoides5YesFACTotal Number of Dominant4
2.       Ulmus americana       5       Yes       FACW       That Are OBL, FACW, or FAC:       6       (A)         3.       Populus deltoides       5       Yes       FAC       Total Number of Dominant Species         4.
3.     Populus deltoides     5     Yes     FAC     Total Number of Dominant       4.
4.
5
5 Percent of Dominant Species
6 That Are OBL, FACW, or FAC: (A/B)
7 Prevalence Index worksheet:
15 =Total Cover Total % Cover of: Multiply by:
Sapling/Shrub Stratum         (Plot size: 15')         OBL species         x 1 =
1. Rhamnus cathartica         5         Yes         FAC         FACW species         x 2 =
2 FAC species x 3 =
3.      FACU species     x 4 =
4 UPL species x 5 =
5 Column Totals: (A)(B)
6 Prevalence Index = B/A =
7. Hydrophytic Vegetation Indicators:
5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50%
1. <i>Lythrum salicaria</i> 10 Yes OBL 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phragmites australis 5 No FACW 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. <i>Phalaris arundinacea</i> 15 Yes FACW data in Remarks or on a separate sheet)
4. Carex stricta 5 No OBL Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Symphyotrichum novae-angliae 5 No FACW <sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.     be present, unless disturbed or problematic.
7. Definitions of Vegetation Strata:
8 <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter
9at breast height (DBH), regardless of height.
10 Sapling/shrub – Woody plants less than 3 in. DBH
11. and greater than or equal to 3.28 ft (1 m) tall.
12 Herb – All herbaceous (non-woody) plants, regardless
40 =Total Cover of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')
Woody vines - All woody vines greater than 3.28 ft in       1. Toxicodendron radicans     5     Yes     FAC     height.
2.
3 Hydrophytic
S.         Vegetation           4.         Present?         Yes X         No
5 =Total Cover
Remarks: (Include photo numbers here or on a separate sheet.)

epth	Matrix			x Feature			_	<b>_</b> .
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/2	95	10YR 3/6	5	C	М	Loamy/Clayey	Prominent redox concentrations
10-14	10YR 3/2	50	10YR 3/6	50	C	M	Loamy/Clayey	Prominent redox concentrations
	·							
	Concentration, D=Deple	etion, RM	I=Reduced Matrix, C	S=Cover	ed or Coa	ated Sano		ation: PL=Pore Lining, M=Matrix.
Histos	<b>il Indicators:</b> ol (A1) Epipedon (A2)	-	Polyvalue Belov MLRA 149B)		(S8) ( <b>LR</b>	R R,	2 cm Muc	r Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B)
	Histic (A3)		Thin Dark Surfa			II RA 149		airie Redox (A16) ( <b>LRR K, L, R</b> ) xky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
_	gen Sulfide (A4)	-	High Chroma Sa	. , .			·	Below Surface (S8) (LRR K, L)
	ied Layers (A5)	-	Loamy Mucky M					Surface (S9) (LRR K, L)
_	ted Below Dark Surface	e (A11)	Loamy Gleyed N			. ,		ganese Masses (F12) ( <b>LRR K, L, R</b>
Thick	Dark Surface (A12)	· · · -	Depleted Matrix	-				Floodplain Soils (F19) (MLRA 149
 Sandy	Mucky Mineral (S1)	-	X Redox Dark Sur		1			odic (TA6) (MLRA 144A, 145, 149E
_	Gleyed Matrix (S4)	-	Depleted Dark S					nt Material (F21)
-	Redox (S5)	-	Redox Depressi	-	,			llow Dark Surface (TF12)
	ed Matrix (S6)	-	 Marl (F10) ( <b>LRF</b>	. ,				plain in Remarks)
	Surface (S7)	-	() (	,,				·····,
	of hydrophytic vegetati	on and w	retland hydrology mu	ist be pre	sent, unle	ess distur	bed or problematic.	
	e Layer (if observed):							
	nches):						Hydric Soil Pre	sent? Yes X No
emarks: nis data f								CS Field Indicators of Hydric Soils
emarks: nis data f	orm is revised from Nor ) March 2013 Errata. (h							
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Project/Site: CHPE- Jingle Bell Lane- MP 211.7	City/County: Coxsackie/ Gree	ene	Sampling Date: 3/3	30/2023
Applicant/Owner: CHPE		State:	NY Sampling Poir	nt: <u>G-J-1-Up</u>
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: _	Coxsackie		
Landform (hillside, terrace, etc.): Depressions	Local relief (concave, convex, n	one): concave	Slope (	%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 21' 19.84	1" Long: <u>73</u>	° 49' 09.94"	Datum:	
Soil Map Unit Name: Udorthents, loamy, gravelly silt loam		NWI classi	ification: None	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes <u>X</u> No	(If no, explair	n in Remarks.)	
Are Vegetation, Soil, or Hydrologysignifica	ntly disturbed? Are "Normal C	Circumstances" pr	resent? Yes X	No
Are Vegetation, Soil, or Hydrologynaturally	/ problematic? (If needed, ex	plain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point location	ns, transects	, important feature	es, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No_X
Remarks: (Explain alternative proced	dures here or in	a separate report.)			

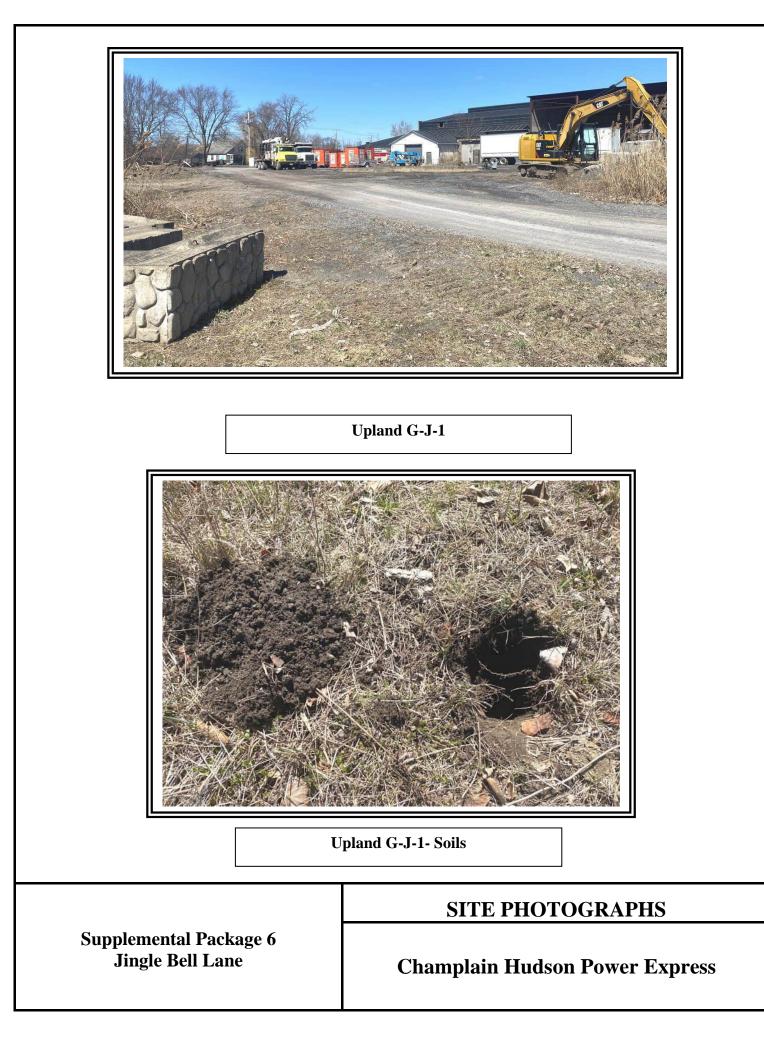
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro	bots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils	s (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): W	etland Hydrology Present? Yes <u>No X</u>
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ns), if available:
Remarks:	

Sampling Point: G-J-1-Up

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus deltoides	10	Yes	FAC	Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
				Species Across All Strata: 4 (B)
				(=)
				Percent of Dominant Species
6		·		That Are OBL, FACW, or FAC: 25.0% (A/B)
7		·		Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rubus allegheniensis	5	Yes	FACU	FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.		·		UPL species x 5 =
		·		
5		·		Column Totals: (A)(B)
6		·		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Solidago canadensis	15	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Poa pratensis	25	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. <u>Trifolium pratense</u>		No	FACU	
4. Daucus carota	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Dipsacus fullonum	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
		·		Sapling/shrub – Woody plants less than 3 in. DBH
11		·		and greater than or equal to 3.28 ft (1 m) tall.
12		·		Herb – All herbaceous (non-woody) plants, regardless
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
				Hydrophytic
				Vegetation
4		·		Present?         Yes         No         X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

SOIL
------

Depth	Matrix	e to the de		x Featur		or or con	firm the absence of ind	icators.)
(inches)	Color (moist)	%	Color (moist)	% x i catal	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
					<u>- 1)po</u>			Romano
0-12	7.5YR 3/2	100					Loamy/Clayey	
					·			
					·			
					·			
					·			
					·			
	Concentration, D=De	nlation Pl			rod or Co			: PL=Pore Lining, M=Matrix.
	il Indicators:			3-000		aleu Sanc		blematic Hydric Soils <sup>3</sup> :
-				(Surface	o (S0) /I D			-
	sol (A1)		Polyvalue Below	/ Sunace	e (30) ( <b>LR</b>	<b>к</b> κ,		10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)	(00)				Redox (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)		Thin Dark Surfa					eat or Peat (S3) ( <b>LRR K, L, R</b> )
	gen Sulfide (A4)		High Chroma Sa					w Surface (S8) (LRR K, L)
	ied Layers (A5)		Loamy Mucky M			<b>K</b> , L)		ace (S9) ( <b>LRR K, L</b> )
	ted Below Dark Surfa	ce (A11)	Loamy Gleyed M		2)			se Masses (F12) ( <b>LRR K, L, R</b> )
	Dark Surface (A12)		Depleted Matrix					dplain Soils (F19) ( <b>MLRA 149B</b> )
	/ Mucky Mineral (S1)		Redox Dark Sur	•	,			(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	/ Gleyed Matrix (S4)		Depleted Dark S				Red Parent Ma	
	/ Redox (S5)		Redox Depressi		)			Dark Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRR	R K, L)			Other (Explain	in Remarks)
Dark \$	Surface (S7)							
<sup>3</sup> Indicators	of hydrophytic veget	ation and v	vetland hydrology mu	st be pr	esent, unle	ess distur	bed or problematic.	
Restrictiv	e Layer (if observed	):						
Type:								
	nches):						Hydric Soil Present	? Yes <u>No X</u>
Remarks: This data f	form is revised from N	lorthcentra	al and Northeast Regi	onal Sur	oplement	/ersion 2	0 to reflect the NRCS Fig	eld Indicators of Hydric Soils
			0					eld Indicators of Hydric Soils
		(1111)	w.mcs.usua.gov/mten				s142p2_051293.docx)	



U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-12-1; the		-	Requirement C	0710-0024, Exp: 11/30/2024 Control Symbol EXEMPT: 335-15, paragraph 5-2a)	
Project/Site: CHPE - Segment 10 - Package	9 6	City/County: Coxsackie/	Greene	Sampling Date: 9/7/23	
Applicant/Owner: TDI			State: NY	Sampling Point: P-A Wet	
Investigator(s): C. Einstein		Section, Townsl	hip. Range:		
Landform (hillside, terrace, etc.):	l ocal r	elief (concave, convex, n		Slope %: 0	
		•		·	
<b>o</b> ( )		Long: <u>-73</u>		Datum: NAD83	
Soil Map Unit Name: Shaker very fine sandy			NWI classification:		
Are climatic / hydrologic conditions on the site		Yes <u>x</u>		explain in Remarks.)	
Are Vegetation, Soil, or Hydro			Circumstances" prese	ent? Yes x No	
Are Vegetation, Soil, or Hydro	logynaturally problema	tic? (If needed, ex	plain any answers in	Remarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ns, transects, im	portant features, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X No	If yes, optional Wetlan			
Remarks: (Explain alternative procedures he	ere or in a separate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:		<u> </u>	condany Indicators (n	ninimum of two required)	
Primary Indicators (minimum of one is requir	ed: check all that apply)	<u></u>	Surface Soil Cracks		
Surface Water (A1)	Water-Stained Leaves (E	39)	Drainage Patterns (		
High Water Table (A2)	Aquatic Fauna (B13)	,	Moss Trim Lines (B		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)	
x Water Marks (B1)	Hydrogen Sulfide Odor (	C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres of			n Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Irc		_Stunted or Stressed		
Algal Mat or Crust (B4)	Recent Iron Reduction in		Geomorphic Position	. ,	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	Thin Muck Surface (C7) Other (Explain in Remark		Shallow Aquitard (E Microtopographic R	,	
Sparsely Vegetated Concave Surface (B		,	FAC-Neutral Test (I		
Field Observations:	- /			- /	
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches):	Wetland H	ydrology Present?	Yes X No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:					
-					

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Sampling Point: P-A Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 45 x 1 =45
1				FACW species 85 x 2 = 170
2				FAC species x 3 =
3				FACU species5 x 4 =20
4				UPL species x 5 =
5				Column Totals: 135 (A) 235 (B)
6				Prevalence Index = B/A =1.74
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phragmites australis	80	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Solidago canadensis	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Impatiens capensis	5	No	FACW	data in Remarks or on a separate sheet)
4. Cyperus difformis	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lythrum salicaria 6.	40	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	135	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

### SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument ti	he indica	ator or co	onfirm the absence o	of indicators.)
Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Loamy/Clayey	
4-16	10YR 3/1	80	10YR 3/6	20	С	M	Loamy/Clayey	Prominent redox concentrations
								- Doro Liping M-Matrix
Hydric Soil I		letion, Ri	A=Reduced Matrix, N	15=Ivias	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Histosol			Dark Surface (	S7)				uck (A10) (LRR K, L, MLRA 149B)
	vipedon (A2)		Polyvalue Belo		ce (S8) (	LRR R.		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B			,		ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	LRR R	. MLRA		ue Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					rk Surface (S9) (LRR K, L)
	Below Dark Surface	≏ (A11)	Loamy Mucky			-		nganese Masses (F12) (LRR K, L, R)
	irk Surface (A12)	5 (7(11)	Loamy Gleyed			(		nt Floodplain Soils (F19) (MLRA 149B)
	podic (A17)		Depleted Matri		12)			rent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		X Redox Dark Su		(G)			allow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark					Explain in Remarks)
	leyed Matrix (S4)		? Redox Depress					
	edox (S5)		Marl (F10) (LR		5)		<sup>3</sup> Indicat	ors of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		24) /MI 6	DA 145)		
Stripped	Matrix (30)			ateriai (F		(A 145)		nd hydrology must be present,
Postrictivo I	_ayer (if observed):						uriles	s disturbed or problematic.
	grav							
-	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:		10						
Remarks:								



U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-12-1; th	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)							
Project/Site: CHPE - Segment 10 - Package 6 City/County: Coxsackie/Greene Sampling Date: 9/7/23								
Applicant/Owner: TDI	<u> </u>	· · · <u> </u>	State: NY Sampling Point: P-A-3 Up					
Investigator(s): C. Einstein		Section Towns	hip, Range:					
		elief (concave, convex, n						
Landform (hillside, terrace, etc.):								
Subregion (LRR or MLRA): LRR R		Long: -/3	3.817589 Datum: NAD83					
Soil Map Unit Name: Shaker very fine sand	dy loam		NWI classification: PEM					
Are climatic / hydrologic conditions on the si	te typical for this time of year?	Yes <u>x</u>	No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hyd	rologysignificantly disturb	bed? Are "Normal (	Circumstances" present? Yes x No					
Are Vegetation, Soil, or Hyd	rology naturally problema	tic? (If needed, ex	plain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attac	h site map showing sam	pling point location	ns, transects, important features, etc.					
Hydrophytic Vegetation Present?	Yes NoX	Is the Sampled Area						
Hydric Soil Present?	Yes No X	within a Wetland?	Yes <u>No X</u>					
Wetland Hydrology Present? Remarks: (Explain alternative procedures	Yes <u>No X</u>	If yes, optional Wetlan						
HYDROLOGY								
Wetland Hydrology Indicators:		Se	condary Indicators (minimum of two required)					
Primary Indicators (minimum of one is requ		_Surface Soil Cracks (B6)						
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (E Aquatic Fauna (B13)		_Drainage Patterns (B10) Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (	C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres o		Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Iro	n (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark		Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (E	_Microtopographic Relief (D4)							
Sparsely Vegetated Concave Surface	(B8)		FAC-Neutral Test (D5)					
Field Observations:								
Surface Water Present? Yes Water Table Present? Yes	No x Depth (inches):							
Water Table Present?     Yes       Saturation Present?     Yes	No x Depth (inches): No x Depth (inches):	Wetland H	ydrology Present? Yes No X					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, pre	vious inspections), if ava	ilable:					
Remarks:								

Sampling Point: P-A-3 Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)			
3				Total Number of Dominant Species Across All Strata: 1 (B)			
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =0			
1				FACW species 0 x 2 = 0			
2.				FAC species $0   x 3 = 0$			
3.				FACU species 30 x 4 = 120			
4				UPL species $0 \times 5 = 0$			
5.				Column Totals: 30 (A) 120 (B)			
				Prevalence Index = $B/A = 4.00$			
7				Hydrophytic Vegetation Indicators:			
/		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%			
1. <u>Trifolium dubium</u>	30	Yes	FACU	3 - Prevalence Index is $\leq 3.0^1$			
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
3		. <u> </u>					
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6				be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in			
9				diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11.				and greater than or equal to 3.28 ft (1 m) tall.			
12.							
	30	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
2							
3				Hydrophytic Vegetation			
4.				Present? Yes No X			
		=Total Cover					
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						
	,						

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence of	indicators.)	
Depth	Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
					·				
									<u> </u>
					·				
———									
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion. RM	=Reduced Matrix.	MS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL	-=Pore Lining, M=M	atrix.
Hydric Soil								r Problematic Hyd	
Histosol			Dark Surface	(S7)				ck (A10) ( <b>LRR K, L,</b>	
	bipedon (A2)		Polyvalue Bel	· /				airie Redox (A16) (L	
					ice (30) (i				
Black Hi			MLRA 149E	,				cky Peat or Peat (S3	
	n Sulfide (A4)		Thin Dark Sur					Below Surface (S8	
	l Layers (A5)		High Chroma			-		Surface (S9) (LRR	
	Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mang	ganese Masses (F1	2) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Loamy Gleyed	d Matrix	(F2)		Piedmont	Floodplain Soils (F	19) ( <b>MLRA 149B</b> )
Mesic S	podic (A17)		Depleted Mati	rix (F3)			Red Pare	nt Material (F21) (o	utside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark S	Surface (F	-6)		Very Sha	llow Dark Surface (F	-22)
Sandy M	lucky Mineral (S1)		Depleted Dark	k Surface	e (F7)		Other (Ex	plain in Remarks)	
Sandy G	ileyed Matrix (S4)		Redox Depres	ssions (F	8)				
Sandy R	edox (S5)		 Marl (F10) ( <b>LF</b>	RR K, L)			<sup>3</sup> Indicator	s of hydrophytic veg	etation and
	Stripped Matrix (S6) Red Parent Material (F21) (MLRA 14		(A 145)	wetland hydrology must be present,					
						disturbed or probler			
Restrictive	Layer (if observed):								
Type:	grav								
	0								
Depth (ii	nches):	0					Hydric Soil Present	t? Yes	<u>No X</u>
Remarks:									
Gravel shoul	der and paved road								



Upland P-A – Soils (pavement & gravel)

Segment 10-Package 6

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE Package 6	6	C	ity/County: Coxsacki	<b>A</b>	Sampling Date: 12/3/21	
Applicant/Owner: CHA		0		State: NY		
Investigator(s): <u>Nick Dominic/J</u>	lustin Williams		Section Towr	nship, Range:		
Landform (hillside, terrace, etc.)	):	Local reli	ief (concave, convex,	none):		
Subregion (LRR or MLRA): LF	RR R, MLRA 144B Lat:	42.35641	Long: -	73.81606	Datum: NAD83	
Soil Map Unit Name:				NWI classification	PEM	
Are climatic / hydrologic condition	ons on the site typical for t	this time of year?	Yes X	No (If no,	explain in Remarks.)	
Are Vegetation <u>No</u> , Soil	N , or Hydrology N	significantly disturbed	d? Are "Norma	l Circumstances" pres	sent? Yes X No	
Are Vegetation <u>N</u> , Soil	N_, or Hydrology N_	naturally problematic	? (If needed,	explain any answers i	n Remarks.)	
SUMMARY OF FINDING	S – Attach site map	showing sampl	ing point location	ons, transects, ir	nportant features, etc.	
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present?	nt? Yes X Yes X Yes X		Is the Sampled Are within a Wetland? If yes, optional Wetla	Yes <u>X</u>	No	
Remarks: (Explain alternative procedures here or in a separate report.) Wetland ZB and ZB2 Wetland Data Sheet						
HYDROLOGY						
Wetland Hydrology Indicator	rs:		<u> </u>	Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum o	of one is required; check a	ill that apply)		Surface Soil Crack	(s (B6)	
X Surface Water (A1)	Water	r-Stained Leaves (B9)	) _	Drainage Patterns		
X High Water Table (A2)	Aquat	tic Fauna (B13)	_	Moss Trim Lines (	B16)	
X Saturation (A3)	Marl [	Deposits (B15)	_	Dry-Season Wate	r Table (C2)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)		
X Surface Water (A1)	Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)	
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3	3) Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	X Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B	8)	FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes X	No Depth (inches): 2		
Water Table Present? Yes X	No Depth (inches): 8		
Saturation Present? Yes X	No Depth (inches): 0 Wetl	and Hydrology Present? Yes X No	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	, if available:	
Remarks:			

Sampling Point: ZB-6

<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30</u> )		Sheries :	Status	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3.       4.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1. Cornus sericea	20	Yes	FACW	FACW species 110 x 2 = 220
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 110 (A) 220 (B)
6.				Prevalence Index = B/A = 2.00
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5)				X 2 - Dominance Test is >50%
1. Phragmites australis	90	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
2.		163		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		·		Definitions of Vegetation Strata:
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				
, 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes x No
4		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

SOIL	
------	--

	ription: (Describe	to the de				tor or c	onfirm the absence o	of indicators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10yr 3/1	75	7.5yr 5/4	25			Loamy/Clayey	Prominent
4-16	10yr 2/1	60	7.5yr 5/4	40			Loamy/Clayey	Prominent
	oncentration, D=Dep	letion, R	M=Reduced Matrix, I	MS=Mas	ked Sand	d Grains		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Histosol			Polyvalue Beld	ow Surfa	ce (S8) (I	LRR R.		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	bipedon (A2)		MLRA 1498		00 (00) (			vrairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi			Thin Dark Surf	·	) (LRR R	MLRA		ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma	Sands (S	511) ( <b>LRF</b>	R K, L)	Polyvalu	ue Below Surface (S8) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Da	rk Surface (S9) (L <b>RR K, L</b> )
Depleted	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		X Depleted Matr	ix (F3)			Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark S	urface (F	-6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	ileyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Pa	rent Material (F21)
Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Sh	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	Explain in Remarks)
Dark Su	rface (S7)							
3								
	•		vetland hydrology m	ust be p	resent, ur	nless dis	turbed or problematic.	
Type:	Layer (if observed):	i						
Depth (ir	nches) <sup>.</sup>						Hydric Soil Prese	ent? Yes X No
Remarks:								
Remarks.								
1								



Wetland ZB- View facing southeast



Wetland ZB- Soils

Segment 10 – Package 6

# SITE PHOTOGRAPHS

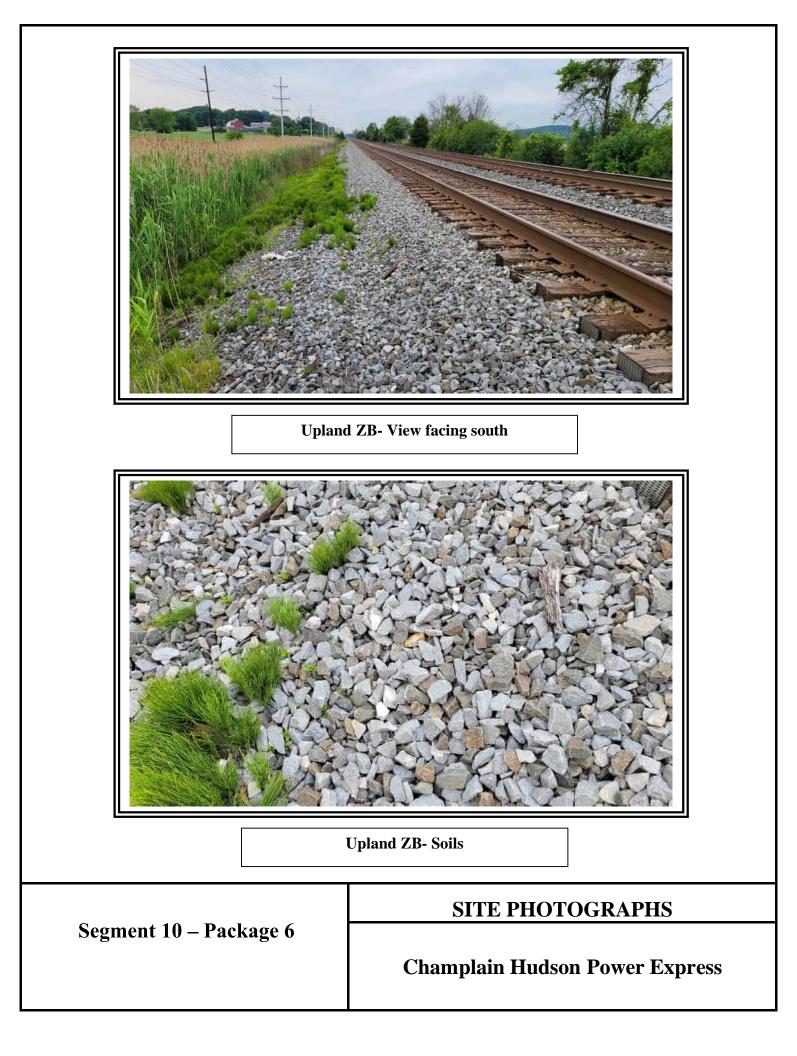
**Champlain Hudson Power Express** 

	City/County: Coxsackie / Green County Sampling Date: 06/21/22
Applicant/Owner: TDI	State: NY Sampling Point: UPL ZB
Investigator(s): C.Scrivner and J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local re	elief (concave, convex, none): <u>Convex</u> Slope %: <u>5</u>
Subregion (LRR or MLRA): LRR R Lat: 42.34805	Long: -73.81817 Datum: WGS 84
Soil Map Unit Name: Kingsbury and Rhinebeck soils, 0 to 3 percent slopes (	(KrA) NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	
Are Vegetation, Soil, or Hydrologynaturally problemat	
SUMMARY OF FINDINGS – Attach site map showing samp	
	<b>5</b>
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present?         Yes         No         X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Railroad ROW.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B2	
Surface Water (A1)       Water-Stained Leaves (B1)         High Water Table (A2)       Aquatic Fauna (B13)	
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)	9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) n Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or	9)       Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         n Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         n (C4)       Stunted or Stressed Plants (D1)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror	9)       Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         n Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         n (C4)       Stunted or Stressed Plants (D1)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)	9)       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         n Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         n (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         ?       Shallow Aquitard (D3)         Microtopographic Relief (D4)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) (Ins) Microtopographic Relief (D4) FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Field Observations:	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) (S) Microtopographic Relief (D4) FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) n Living Roots (C3) Saturation Visible on Aerial Imagery (C9) n (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) (s) Microtopographic Relief (D4) FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) n Living Roots (C3) Saturation Visible on Aerial Imagery (C9) n (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) (s) Microtopographic Relief (D4) FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Surface Water Present?         Field Observations:       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Stell Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Yes       No       X       Depth (inches):	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Staturation Present?         Field Observations:       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):         Obscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous       Stream gauge, monitoring well, aerial photos, previous	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres or         Drift Deposits (B3)       Presence of Reduced Iror         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Stell Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Yes       No       X       Depth (inches):	9) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) C1) Crayfish Burrows (C8) In Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In (C4) Stunted or Stressed Plants (D1) Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X

Sampling Point: UPL ZB

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant Species Across All Strata:2(B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 20 x 3 = 60
3.				FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
5.				Column Totals: 25 (A) 85 (B)
6.				Prevalence Index = $B/A = 3.40$
7.		·		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
	20	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Equisetum arvense     Z. Verbascum thapsus	5	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.		165	OFL	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
4.		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6.		·		present, unless disturbed or problematic.
7		·		Definitions of Vegetation Strata:
8				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			l
	···· · · · ,			

Profile Description:	(Describe to	the dept	th needed to docu	ument th	e indica	tor or co	nfirm the absence of	indicators.)	
Depth	Matrix		Redo	x Featu	res				
(inches) Col	lor (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
<u> </u>									
<sup>1</sup> Type: C=Concentra	tion D-Denle	tion RM-	Reduced Matrix M	IS-Mask	red Sand	Grains	<sup>2</sup> Location: P	L=Pore Lining, M=Ma	trix
Hydric Soil Indicato					eu ounu	orano.		or Problematic Hydr	
Histosol (A1)	10.		Polyvalue Belo	w Surfa	co (S8) (I			uck (A10) ( <b>LRR K, L,</b> I	
	(4.2)	-			Le (30) (I				
Histic Epipedon			MLRA 149B					rairie Redox (A16) (LI	
Black Histic (A3)		-	Thin Dark Surf					ucky Peat or Peat (S3)	
Hydrogen Sulfide		-	High Chroma S					e Below Surface (S8)	
Stratified Layers	(A5)	-	Loamy Mucky	Mineral	(F1) ( <b>LRF</b>	R K, L)	Thin Da	rk Surface (S9) (LRR	K, L)
Depleted Below	Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	nganese Masses (F12	2) (LRR K, L, R)
Thick Dark Surfa	ice (A12)	_	Depleted Matri	ix (F3)			Piedmor	nt Floodplain Soils (F1	9) ( <b>MLRA 149B</b> )
Sandy Mucky Mi	neral (S1)	_	Redox Dark S	urface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 1</b> 4	44A, 145, 149B)
Sandy Gleyed M	atrix (S4)	•	Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)	
Sandy Redox (S		-	Redox Depres					allow Dark Surface (F	22)
Stripped Matrix (		-	Marl (F10) (LR		- /			xplain in Remarks)	,
Dark Surface (S		-		. ,			`	, ,	
	)								
31			4						
<sup>3</sup> Indicators of hydropl		on and we	tiand hydrology mu	st be pre	esent, uni	ess aistu	rbed of problematic.		
Restrictive Layer (if									
Туре:	Rock/railroa	d ballast							
Depth (inches):		0					Hydric Soil Preser	nt? Yes	No X
Remarks:									
Remarks.									



Project/Site: CHPE- Flats Road- MP 214.0	City/County: Coxsackie/ Gre	eene	Sampling Date: 4/4/2023
Applicant/Owner: CHPE		State:	NY Sampling Point: G-FL-1-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie	
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex,	none): <u>Concave</u>	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 19' 4	5.28" Long: 7	3° 49' 37.72	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck Soils		NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes X No	(If no, explain ir	ו Remarks.)
Are Vegetation, Soil, or Hydrologysign	ficantly disturbed? Are "Normal	Circumstances" pres	sent? Yes X No
Are Vegetation, Soil, or Hydrology natu	rally problematic? (If needed, e	explain any answers i	n Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point location	ons, transects, i	mportant features, etc.

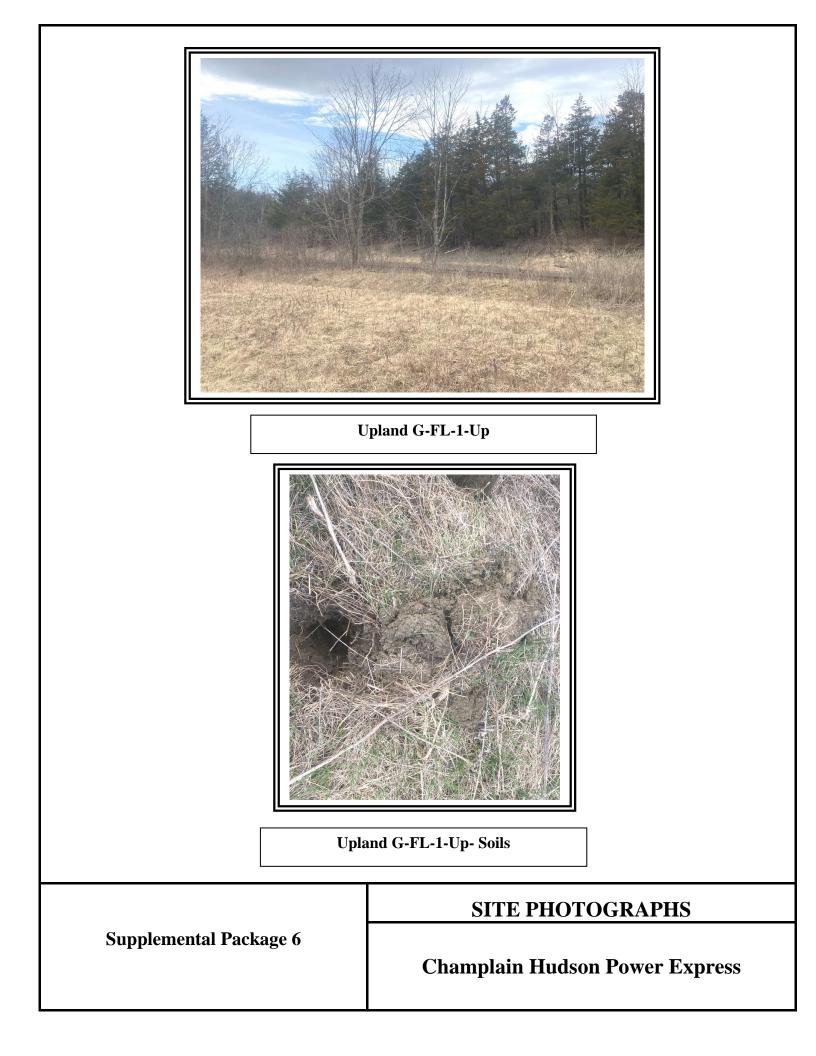
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No <u>X</u>
Remarks: (Explain alternative proced	ures here or in a	a separate report.)			

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)		
Saturation (A3)	Dry-Season Water Table (C2)			
Water Marks (B1)	Water Marks (B1) Hydrogen Sulfide Odor (C1)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Root	ts (C3) Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (	C6) Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)	ı	FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes No	X Depth (inches):			
Water Table Present? Yes No	X Depth (inches):			
Saturation Present? Yes No	X Depth (inches): Wetl	land Hydrology Present? Yes No X		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previous inspections	), if available:		
Remarks:				

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7		·		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Lonicera tatarica	15	Yes	FACU	FACW species x 2 =
2. Rubus allegheniensis	10	Yes	FACU	FAC species x 3 =
3				FACU species x 4 =
4.				UPL species x 5 =
5				Column Totals: (A)(B)
6		. <u> </u>		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Poa pratensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Asclepias syriaca	10	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago altissima	15	No	FACU	data in Remarks or on a separate sheet)
4. Melilotus officinalis	15	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')		-		Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.		·		Hydrophytic
4.		·		Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1
······ (······· F····· ······ ··· ··· ··	,			

SOIL
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moist)         %           2 4/2         100	Color (moist)	<u>%</u>		Loc <sup>2</sup> -	Texture           Loamy/Clayey	Remark	<s< th=""></s<>
<u>4/2</u>				;	Loamy/Clayey		
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		·	·				
	RM=Reduced Matrix, C	S=Covere	d or Coat	ed Sand			
rs:				_		•	
		/ Surface (	(S8) ( <b>LRR</b>	R,			-
A2)	,						-
( )							-
							-
				L)			-
							-
							-
			7)				A, 145, 149B
			()			· · · ·	2)
		• •					2)
		· <b>K</b> , L)				i Keinarks)	
)							
wtic vegetation and	t wetland hydrology mu	ist ha nras	ont unlos	e dieturb	ed or problematic		
	r wedana nyarology ma	st be pres	ent, unice				
000011000).							
					Undria Cail Dressort2	N	
					Hydric Soll Present?	res	<u>NoX</u>
	rs: (A2) e (A4) (A5) Dark Surface (A11) ace (A12) ineral (S1) latrix (S4) 5) (S6) 7) hytic vegetation and <b>r observed)</b> :	(A2)       Polyvalue Below         (A2)       MLRA 149B)         0       Thin Dark Surface         e (A4)       High Chroma Sa         (A5)       Loamy Mucky M         Dark Surface (A11)       Loamy Gleyed M         ace (A12)       Depleted Matrix         ineral (S1)       Redox Dark Sur         latrix (S4)       Depleted Dark S         5)       Redox Depressi         (S6)       Marl (F10) (LRR         7)       hytic vegetation and wetland hydrology mu         ised from Northcentral and Northeast Reginger       State S	rs:       Polyvalue Below Surface (         (A2)       MLRA 149B)         in Dark Surface (S9) (L         (A4)       High Chroma Sands (S11)         (A5)       Loamy Mucky Mineral (F1)         Dark Surface (A11)       Loamy Gleyed Matrix (F2)         ace (A12)       Depleted Matrix (F3)         ineral (S1)       Redox Dark Surface (F6)         latrix (S4)       Depleted Dark Surface (F6)         5)       Redox Depressions (F8)         (S6)       Marl (F10) (LRR K, L)         7)       hytic vegetation and wetland hydrology must be pressions	rs:       Polyvalue Below Surface (S8) (LRR         (A2)       MLRA 149B)         Thin Dark Surface (S9) (LRR R, ML         e (A4)       High Chroma Sands (S11) (LRR K,         (A5)       Loamy Mucky Mineral (F1) (LRR K,         Dark Surface (A11)       Loamy Gleyed Matrix (F2)         ace (A12)       Depleted Matrix (F3)         ineral (S1)       Redox Dark Surface (F6)         latrix (S4)       Depleted Dark Surface (F7)         5)       Redox Depressions (F8)         (S6)       Marl (F10) (LRR K, L)         7)       hydrology must be present, unless	rs:       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149E)         (A4)       High Chroma Sands (S11) (LRR K, L)         (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Dark Surface (A12)       Depleted Matrix (F3)         ineral (S1)       Redox Dark Surface (F6)         latrix (S4)       Depleted Dark Surface (F7)         5)       Redox Depressions (F8)         (S6)       Marl (F10) (LRR K, L)         7)       hydrology must be present, unless disturb	Indicators for Problematic         Polyvalue Below Surface (S8) (LRR R, L2 cm Muck (A10 Coast Prairie Removed)         (A2)       MLRA 149B)         Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Pearset         (A4)       High Chroma Sands (S11) (LRR K, L)         (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Dark Surface (A11)       Loamy Gleyed Matrix (F3)         Depleted Matrix (F3)       Piedmont Floodp         ineral (S1)       Redox Dark Surface (F6)         Marl (F10)       LRR K, L)         (A5)       Marl (F10) (LRR K, L)         (A12)       Marl (F10) (LRR K, L)         (A12)       Marl (F10) (LRR K, L)         (A12)       Depleted Dark Surface (F7)         (A14)       Marl (F10) (LRR K, L)         (A17)       Other (Explain in the following must be present, unless disturbed or problematic.         (A17)       Hydric Soil Present?	Indicators for Problematic Hydric 3         (A2)       MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML Coast Prairie Redox (A16) (LRR Coast Prairie Redox (A16) (LRR K, L)         (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (I Polyvalue Below Surface (S8) (L RA5)         (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, Loamy Mucky Mineral (F1) (LRR K, L)         Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) ( Piedmont Floodplain Soils (F19)         ace (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         ineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144         latrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         7)       hytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



Project/Site: CHPE- Flats Road- MP 214.0	City/County: Coxsackie/ Gre	eene	Sampling Date:	4/4/2023
Applicant/Owner: CHPE		State:	NY Sampling	g Point:G-FL-1-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie		
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex,	none): <u>Concave</u>	Slo	ope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 19' 4	5.28" Long: 7	3° 49' 37.72"	Datu	ım:
Soil Map Unit Name: Kingsbury Rhinebeck Soils		NWI classif	fication: PEM	
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes X No	(If no, explain	n in Remarks.)	
Are Vegetation, Soil, or Hydrologysign	ficantly disturbed? Are "Normal	Circumstances" pr	resent? Yes	X No
Are Vegetation, Soil, or Hydrologynatu	rally problematic? (If needed, e	explain any answers	s in Remarks.)	
SUMMARY OF FINDINGS – Attach site map show	ving sampling point location	ons, transects,	, important fea	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur	es here or in a separate report.)	

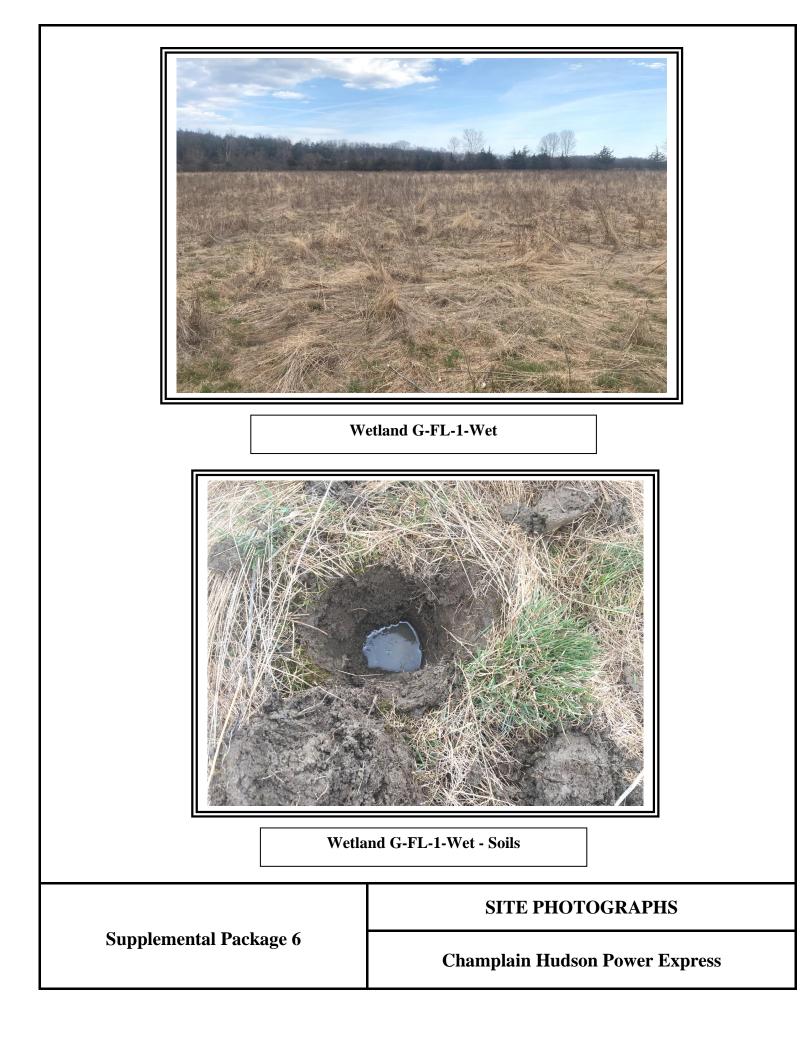
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	g Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 1	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No       Depth (inches):       0         (includes capillary fringe)	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
(includes capillary fringe)	
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	

Sampling Point: G-FL-1-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
3 4				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Cornus racemosa	10	Yes	FAC	FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	25	Yes	OBL	$3 - \text{Prevalence Index is } \le 3.0^1$
2 Rholovia avundinaaaa		Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2 Denotomon divitalio		·		data in Remarks or on a separate sheet)
3. Penstemon digitalis		<u>No</u>	FAC	
4. Carex stricta	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Eleocharis palustris</u>	15	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
1				height.
2.				
2				Hydrophytic
4.				Vegetation Present? Yes X No
*		-Tatal Causar		Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sneet.)			

SOIL
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	Color (moist)         %         Type1         Loc2           10YR 5/6         5         C         M	Texture       Remarks         Loamy/Clayey       Prominent redox concentration
		Loamy/Clayey Prominent redox concentration
	·	
	RM=Reduced Matrix, CS=Covered or Coated Sand	· · · · ·
dric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 149	
Hydrogen Sulfide (A4)	High Chroma Sands (S11) (LRR K, L)	Polyvalue Below Surface (S8) (LRR K, L)
_Stratified Layers (A5)	Loamy Mucky Mineral (F1) (LRR K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11	)Loamy Gleyed Matrix (F2)	Iron-Manganese Masses (F12) (LRR K, L,
Thick Dark Surface (A12)	Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (MLRA 14
Sandy Mucky Mineral (S1)	X Redox Dark Surface (F6)	Mesic Spodic (TA6) (MLRA 144A, 145, 149
Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7)	Red Parent Material (F21)
_ Sandy Redox (S5)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
– Stripped Matrix (S6)	Marl (F10) ( <b>LRR K, L</b> )	Other (Explain in Remarks)
Dark Surface (S7)		
dicators of hydrophytic vegetation an	d wetland hydrology must be present, unless disturl	bed or problematic.
strictive Layer (if observed):		
ype: Depth (inches):		Hydric Soil Present? Yes X No
marks:		



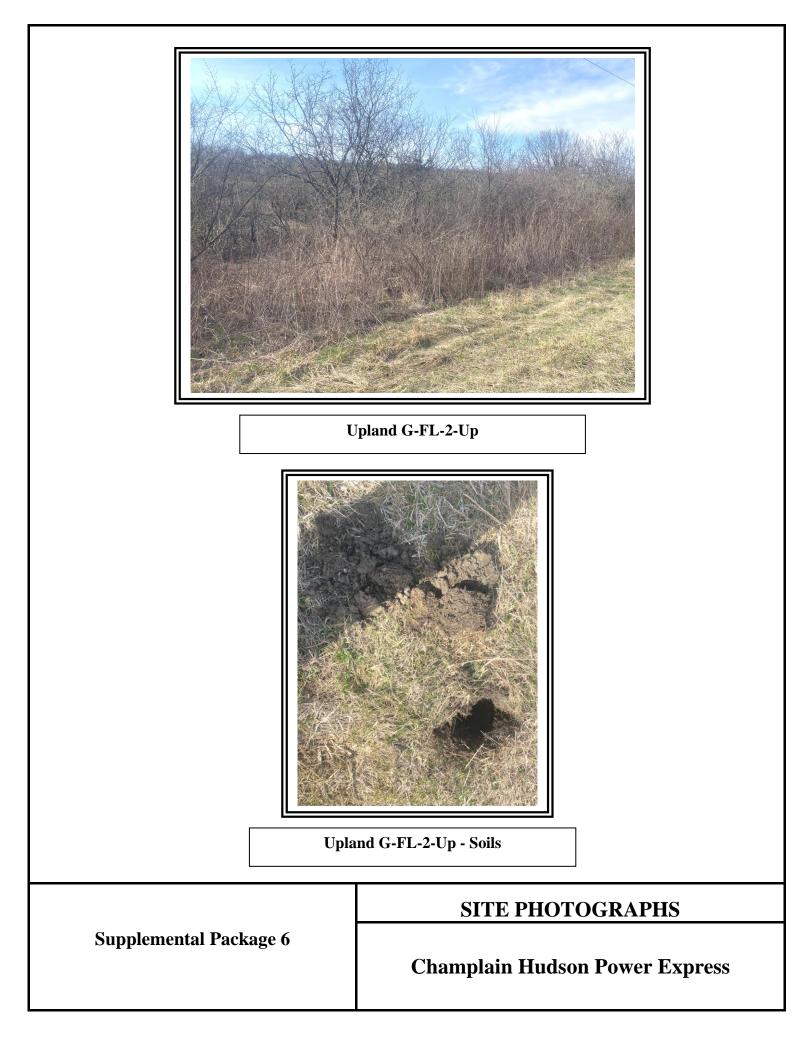
Project/Site: CHPE- Flats Road MP 214.0	City/County: Coxsackie/ Greene	Sampling Date: 4/4/2023
Applicant/Owner: CHPE	Sta	ate: NY Sampling Point: G-FL-2-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Coxsackie	
Landform (hillside, terrace, etc.): Lake Plains	ocal relief (concave, convex, none): <u>Conc</u>	caveSlope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 19' 35.81"	Long: <u>73° 49' 42.23</u> "	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck Soils	NWI	classification: None
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificant	ly disturbed? Are "Normal Circumstanc	ces" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally p	roblematic? (If needed, explain any ar	nswers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, trans	ects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No <u>X</u>
Remarks: (Explain alternative proced	ures here or in a	a separate report.)			

Wetland Hydrology Indicators:		Se	econdary Indicators (minimum of two required)
Primary Indicators (minimum of one is requ	red; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)			Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)			Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)			Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)			Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)		Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)			Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S	oils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B	7)Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (	B8)		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydro	logy Present? Yes No X
(includes capillary fringe)			
(includes capillary ininge)			
	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
	pnitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	Donitoring well, aerial photos, previous inspec	tions), if availabl	e:
	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	Donitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	pnitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if availabl	e:
Describe Recorded Data (stream gauge, m	pnitoring well, aerial photos, previous inspec	tions), if availabl	e:

Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1		·		Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3		·		Total Number of Dominant
4		·		Species Across All Strata: (B)
5		·		Percent of Dominant Species
6 7		·		That Are OBL, FACW, or FAC: 25.0% (A/B) Prevalence Index worksheet:
1		=Total Cover		Total % Cover of: Multiply by:
<u>Sapling/Shrub Stratum</u> (Plot size: 15')		- 10101 00001		OBL species         x1 =
1. Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =
2. Lonicera tatarica	10	Yes	FACU	FAC species x 3 =
3. Rubus allegheniensis	5	Yes	FACU	FACU species x 4 =
4.		·		UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%
1. Solidago altissima	15	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Poa pratensis	65	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. <i>Trifolium pratense</i>	10	No	FACU	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		<u> </u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2		- <u> </u>		Hydrophytic
3				Vegetation
4.		- <u> </u>		Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

	Matrix			x Featur			_		
inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-14	10YR 3/2	100					Loamy/Clayey		
							·		
	Concentration, D=Depl	etion, RI	M=Reduced Matrix, C	S=Cove	red or Coa	ated Sand		PL=Pore Lining	
-	Indicators:						Indicators for Prob	-	
Histoso	( )		Polyvalue Below	v Surface	e (S8) ( <b>LR</b>	RR,	2 cm Muck (A10		
	Epipedon (A2)		MLRA 149B)				Coast Prairie Re		-
	Histic (A3)		Thin Dark Surfa				·		-
	en Sulfide (A4)		High Chroma Sa	-			Polyvalue Belov		-
	ed Layers (A5)		Loamy Mucky N	-		<b>(</b> , L)	Thin Dark Surfa		-
	ed Below Dark Surface	e (A11)	Loamy Gleyed M		2)		Iron-Manganese		
	Dark Surface (A12)		Depleted Matrix				Piedmont Flood		
	Mucky Mineral (S1)		Redox Dark Sur				Mesic Spodic (1		IA, 145, 149B
	Gleyed Matrix (S4)		Depleted Dark S				Red Parent Mat	( )	40)
	Redox (S5)		Redox Depressi	• •			Very Shallow Da		12)
	d Matrix (S6)		Marl (F10) (LRR	κκ, L)			Other (Explain i	n Remarks)	
Dark S	urface (S7)								
	of hydrophytic vegetati	on and v	vetland hydrology mu	ist be pre	esent, unle	ess distur	oed or problematic.		
_	Layer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil Present?	Yes	NoX
Remarks:									
Cinano.									



Project/Site: CHPE- Flats Road- MP 214.0	City/County: Coxsackie/ Greene	Sampl	ing Date: 4/4/2023
Applicant/Owner: CHPE		State: NY	Sampling Point: G-FL-2-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Cox	sackie	
Landform (hillside, terrace, etc.): Lake Plains	ocal relief (concave, convex, none	): Concave	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 19' 35.81"	Long: 73° 49	' 42.23"	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck Soils		NWI classification:	PEM
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No	(If no, explain in Rema	arks.)
Are Vegetation, Soil, or Hydrologysignificantl	y disturbed? Are "Normal Circu	umstances" present?	Yes X No
Are Vegetation, Soil, or Hydrologynaturally p	roblematic? (If needed, explain	n any answers in Rem	arks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations,	transects, impor	tant features, etc.

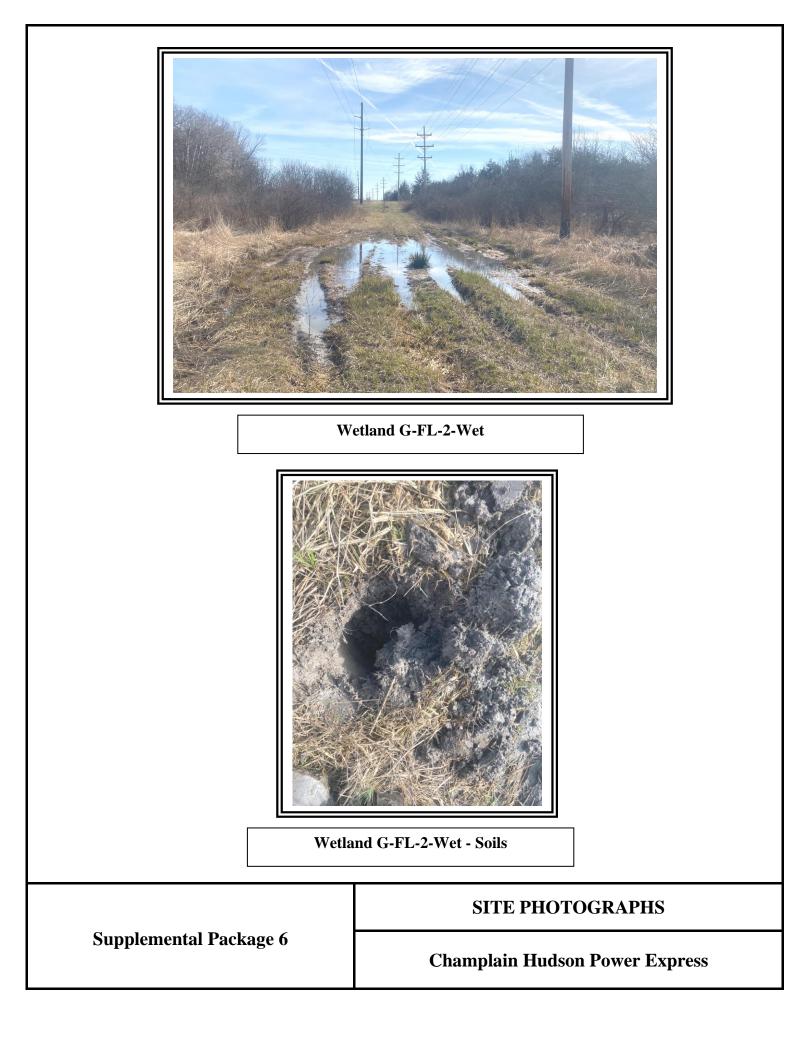
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	g Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 6	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:	

Tree Stratum (Plot size: 30')	Absolute % Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2		·		That Are OBL, FACW, or FAC:(A)
3 4.				Total Number of Dominant Species Across All Strata: 5 (B)
4 5				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =
2. Lonicera tatarica	10	Yes	FACU	FAC species x 3 =
3. Cornus racemosa	5	Yes	FAC	FACU species x 4 =
4				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phalaris arundinacea	30	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Carex stricta	5	No	OBL	data in Remarks or on a separate sheet)
4. Juncus effusus	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		•		Definitions of Vegetation Strata:
8.		·		
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1		·		height.
2		·		Hydrophytic
3		·		Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
US Army Corps of Engineers				Northcentral and Northeast Region – Version 2.0

SOIL
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Color (moist)			Remarks
	<u>C</u> <u>M</u>	Loamy/Clayey Pro	minent redox concentration
		<u> </u>	
 RM=Reduced Matrix, CS=Co			
RM=Reduced Matrix, CS=Co			
	vered or Coated Sa	nd Grains. <sup>2</sup> Location: I	PL=Pore Lining, M=Matrix.
			ematic Hydric Soils <sup>3</sup> :
	ace (S8) ( <b>LRR R,</b>		) (LRR K, L, MLRA 149B)
,			dox (A16) ( <b>LRR K, L, R</b> )
			t or Peat (S3) ( <b>LRR K, L, R</b>
			Surface (S8) (LRR K, L)
, <u> </u>	(FZ)		
	EG)		
		·	( )
	)		(Centario)
nd wetland hydrology must be	present, unless dist	urbed or problematic.	
		Hydric Soil Present?	Yes X No
r	MLRA 149B)            Thin Dark Surface (Signature            High Chroma Sands (            Loamy Mucky Minera         1)       Loamy Gleyed Matrix         Depleted Matrix (F3)         X       Redox Dark Surface (          Depleted Dark Surface (          Depleted Dark Surface (          Marl (F10) (LRR K, L)         md wetland hydrology must be	Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) nd wetland hydrology must be present, unless dist	MLRA 149B)       Coast Prairie Registration         Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Pea         High Chroma Sands (S11) (LRR K, L)       Polyvalue Below         Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface         1)       Loamy Gleyed Matrix (F2)       Iron-Manganese         Depleted Matrix (F3)       Piedmont Floodp         X       Redox Dark Surface (F6)       Mesic Spodic (TA         Redox Depressions (F8)       Very Shallow Da         Marl (F10) (LRR K, L)       Other (Explain in



Project/Site: CHPE- Flats Road- MP 214.0	City/County: Coxsackie/ Greene	Sampli	ing Date: 4/4/2023
Applicant/Owner: CHPE		State: NY	Sampling Point:
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Cox	sackie	
Landform (hillside, terrace, etc.): Lake Plains	ocal relief (concave, convex, none	: Concave	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 19' 27.90"	Long: 73° 49	44.83"	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck soils		NWI classification:	None
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No	(If no, explain in Rema	ırks.)
Are Vegetation, Soil, or Hydrologysignificant	ly disturbed? Are "Normal Circu	mstances" present?	Yes X No
Are Vegetation, Soil, or Hydrologynaturally p	problematic? (If needed, explain	n any answers in Rema	arks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations,	transects, impor	tant features, etc.

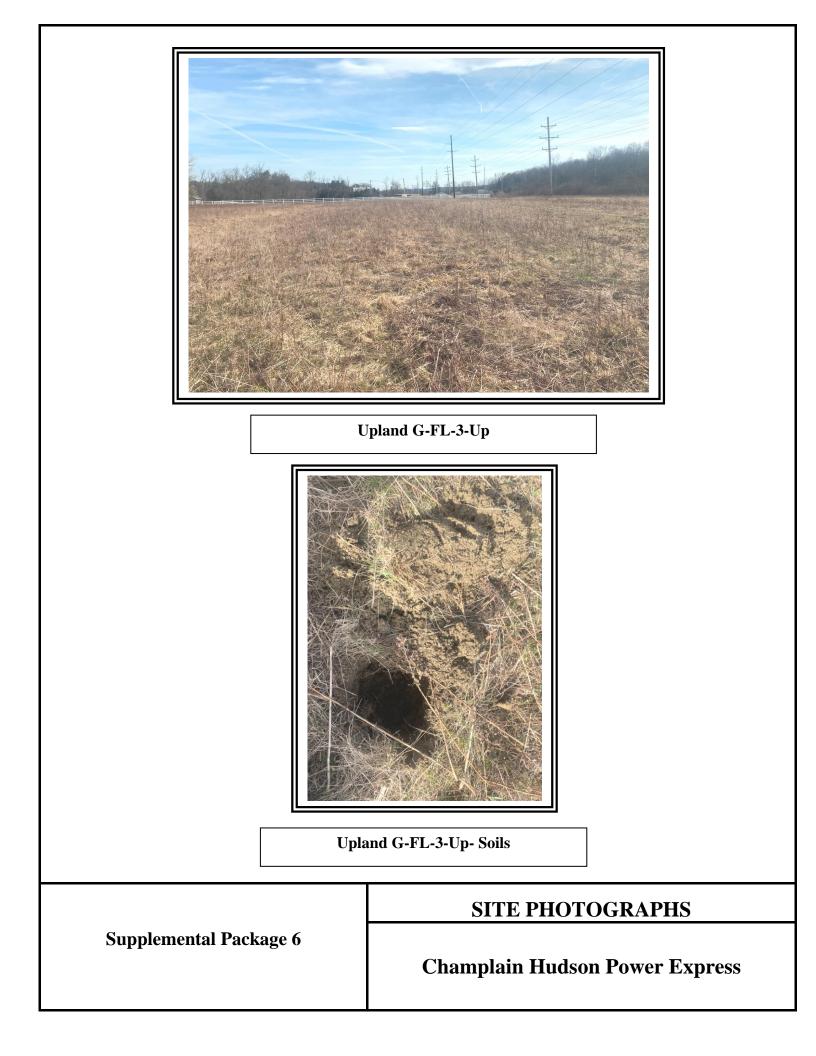
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No <u>X</u>
Remarks: (Explain alternative procedu	es here or in a	separate report.)			

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)		
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)		
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)		
Field Observations:			
Surface Water Present? Yes <u>No X</u> Depth (inches):			
Water Table Present? Yes No X Depth (inches):			
Saturation Present? Yes No X Depth (inches): Wetland H	ydrology Present? Yes <u>No X</u>		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	ailable:		
Remarks:			

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3		. <u> </u>		Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
Oracline (Ohmuh, Ohmahama, (Dhahaina, 1971)		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species x 2 =
2		·		FAC species x 3 =
3		·		FACU species x 4 =
4				UPL species x 5 =
5		·		Column Totals: (A)(B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Daucus carota	10	No	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago altissima	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Poa pratensis	45	Yes	FACU	data in Remarks or on a separate sheet)
4. Trifolium pratense	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Fragaria virginiana	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Modulates 2 in (7.6 cm) or more in diameter
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.		·		<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
12.	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Mandu Mina Otratura (Distaina)	90			or size, and woody plants less than 5.20 it tail.
Woody Vine Stratum (Plot size: 15')				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
1		·		height.
2		. <u> </u>		Hydrophytic
3				Vegetation
4		·		Present?         Yes         NoX
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL
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Color (moist)       %       Type1       Loc2	Texture     Remarks       Loamy/Clayey
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
I=Reduced Matrix, CS=Covered or Coated Sand	
	Indicators for Problematic Hydric Soils <sup>3</sup> :
Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	Coast Prairie Redox (A16) (LRR K, L, R)
	Polyvalue Below Surface (S8) (LRR K, L)
	Thin Dark Surface (S9) (LRR K, L)
	Iron-Manganese Masses (F12) (LRR K, L,
	Piedmont Floodplain Soils (F19) (MLRA 14
	Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149</b>
	Red Parent Material (F21)
	Very Shallow Dark Surface (TF12)
Mari (F10) ( <b>LRR K, L</b> )	Other (Explain in Remarks)
etiand hydrology must be present, unless disturb	bed or problematic.
	Hydric Soil Present? Yes No
	MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149I High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L)



Project/Site: CHPE- Flats Road- MP 214.0	City/County: Coxsackie/ Gree	eneSampl	ling Date: 4/4/2023
Applicant/Owner: CHPE		State: NY	Sampling Point: G-FK-3-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie	
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex, r	ione): Concave	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 19' 27.	90" Long: 73	3° 49' 44.83"	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck Soils		NWI classification:	PEM
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X No	(If no, explain in Rema	arks.)
Are Vegetation, Soil, or Hydrologysignific	cantly disturbed? Are "Normal (	Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrologynatura	Ily problematic? (If needed, ex	xplain any answers in Rem	arks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locatio	ons, transects, impoi	rtant features, etc.

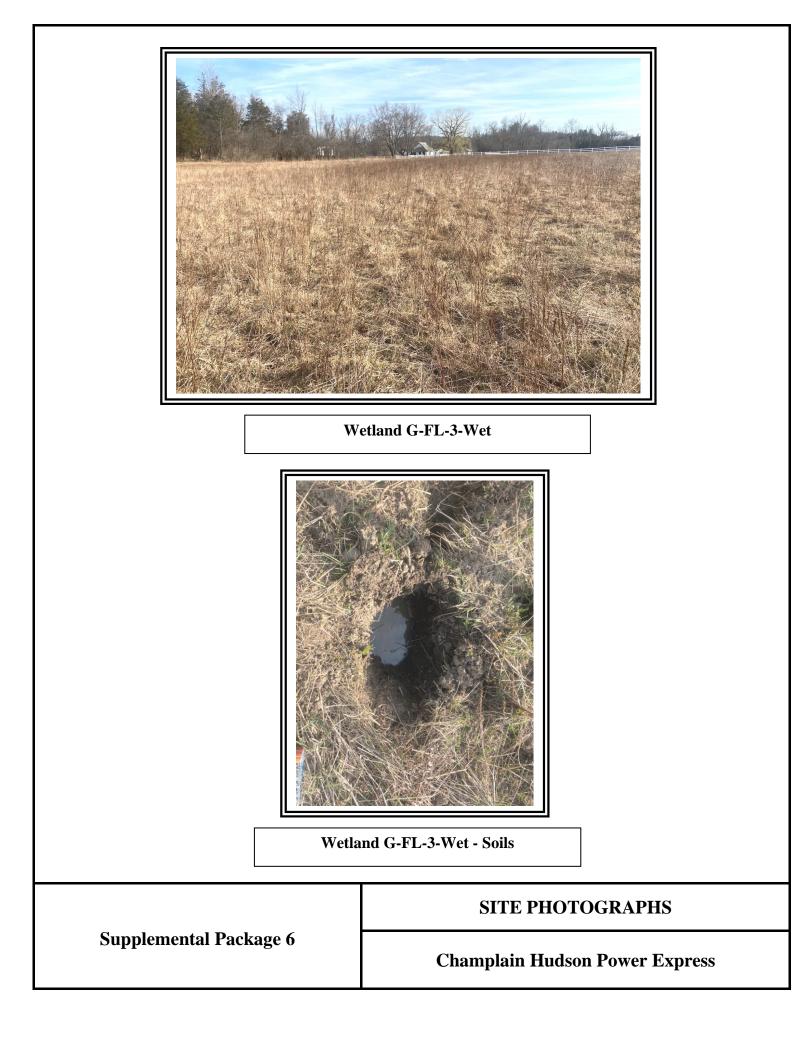
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No           Yes         X         No           Yes         X         No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur	res here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Livin	g Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 3	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ections), if available:
Remarks:	

Sampling Point: \_\_\_\_\_G-FK-3-Wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:(A)
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Lythrum salicaria	50	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phalaris arundinacea	25	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Juncus effusus	10	No	OBL	data in Remarks or on a separate sheet)
4.		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		·		
6.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
Q				
0		·		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9 10		·		
11.		·		<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.		·		
12.	85	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')	0			
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.		·		neight.
		·		Hydrophytic
3		·		Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Depth	escription: (Describe Matrix		-	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	100					Loamy/Clayey	
8-15	10YR 2/1	80	10YR 3/6	20	С	M	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=	Concentration, D=Dep	bletion, R	M=Reduced Matrix, C	S=Cover	red or Coa	ated Sand	d Grains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
	il Indicators:	,						r Problematic Hydric Soils <sup>3</sup> :
	sol (A1)		Polyvalue Below	Surface	e (S8) ( <b>LR</b>	RR,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	Epipedon (A2)		MLRA 149B)					airie Redox (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)		Thin Dark Surfac					cky Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		High Chroma Sa					e Below Surface (S8) (LRR K, L)
	ied Layers (A5) ted Below Dark Surfac	ο (Δ11)	Loamy Mucky M Loamy Gleyed N			<b>Λ</b> , <b>L</b> )		k Surface (S9) ( <b>LRR K, L</b> ) ganese Masses (F12) ( <b>LRR K, L, R</b> )
	Dark Surface (A12)		Depleted Matrix	-	-)			t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	/ Mucky Mineral (S1)		X Redox Dark Sur		)			oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	/ Gleyed Matrix (S4)		Depleted Dark S			ent Material (F21)		
Sandy	/ Redox (S5)		Redox Depression	ons (F8)			Very Sha	allow Dark Surface (TF12)
Stripp	ed Matrix (S6)		Marl (F10) ( <b>LRR</b>	<b>K</b> , L)			Other (Ex	xplain in Remarks)
Dark \$	Surface (S7)							
31	of hydrophytic vegeta	امت من ا				a a diata u		
	e Layer (if observed)		wetland hydrology mu	st be pre	esent, unie	ess aistur	rbed or problematic.	
Type:		•						
Depth (ii	nches).						Hydric Soil Pre	esent? Yes X No
Remarks:								
	form is revised from N	orthcentra	al and Northeast Regi	onal Sup	plement \	/ersion 2	.0 to reflect the NR	CS Field Indicators of Hydric Soils
	) March 2013 Errata. (							



Project/Site: CHPE- Flats Road- MP 215.9	City/County: Athens/ Greene	Sampl	ling Date: <u>5//202</u>	.3
Applicant/Owner: CHPE		State: NY	Sampling Point:	G-FL-4-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Athens			
Landform (hillside, terrace, etc.): Lake Plains Lo	cal relief (concave, convex, none): F	ootslope	Slope (%):	
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 17' 55.0"	Long: 73° 50' 17	.0"	Datum:	
Soil Map Unit Name: Kingsbury Rhinebeck soils	Ν	WI classification:	None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes <u>X</u> No(If n	io, explain in Rema	arks.)	
Are Vegetation, Soil, or Hydrologysignificantly	v disturbed? Are "Normal Circumst	ances" present?	Yes <u>X</u> N	10
Are Vegetation, Soil, or Hydrologynaturally pro-	oblematic? (If needed, explain an	y answers in Rem	arks.)	
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, tra	nsects, impor	tant features,	etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No <u>X</u>
Remarks: (Explain alternative procedur	es here or in a	separate report.)			

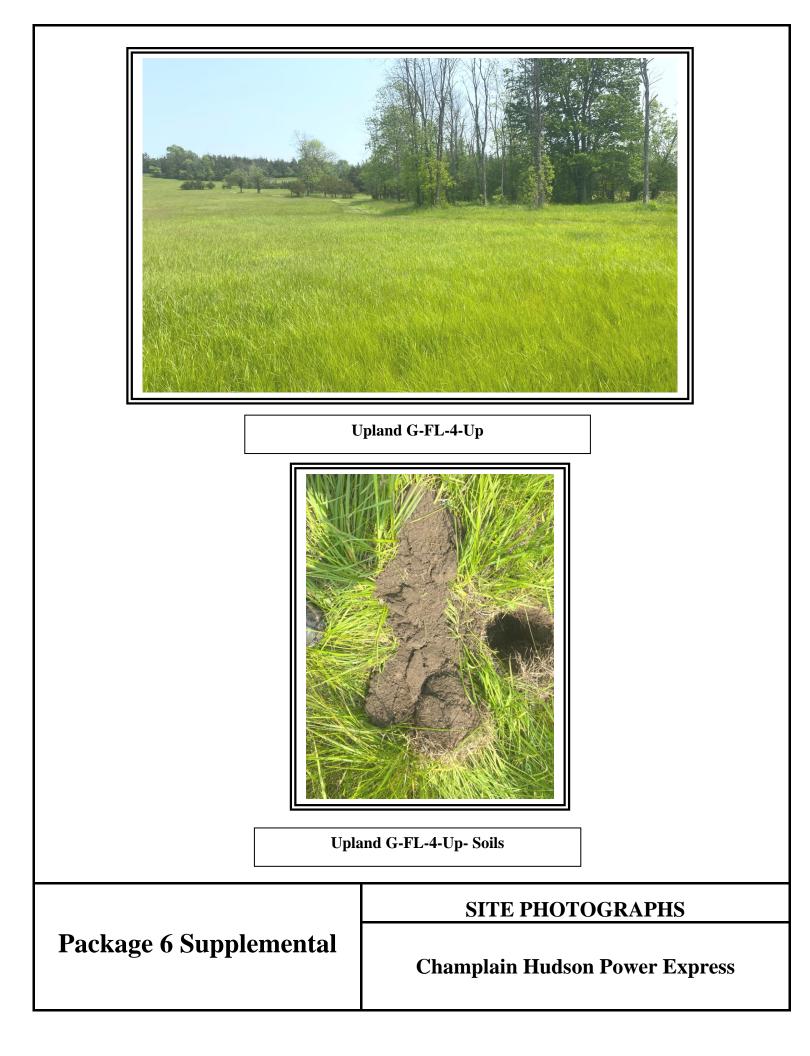
Wetland Hydrology Indicato	ors:						Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is req	<u>uired; c</u>	check	( all that apply)		_	Surface Soil Cracks (B6)
Surface Water (A1)				Water-Stained Leaves (B	9)		Drainage Patterns (B10)
High Water Table (A2)				Aquatic Fauna (B13)			Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)					Dry-Season Water Table (C2)		
Water Marks (B1)				Hydrogen Sulfide Odor (C	C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)				Oxidized Rhizospheres or	n Living Roots (C3	3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)				Presence of Reduced Iror	n (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)				Recent Iron Reduction in	Tilled Soils (C6)		Geomorphic Position (D2)
Iron Deposits (B5)				Thin Muck Surface (C7)			Shallow Aquitard (D3)
Inundation Visible on Aer	ial Imagery (	(B7)		Other (Explain in Remark	is)		Microtopographic Relief (D4)
Sparsely Vegetated Cond	cave Surface	ə (B8)		-		_	FAC-Neutral Test (D5)
Field Observations:							
Surface Water Present?	Yes	No	Х	Depth (inches):			
Water Table Present?	Yes	No	Х	Depth (inches):			
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland I	Hyd	Irology Present? Yes <u>No X</u>
(includes capillary fringe)							
Describe Recorded Data (stre	∍am gauge, r	monitor	ing w	vell, aerial photos, previous	s inspections), if a	vaila	able:
Remarks:							

Sampling Point: G-FL-4-Up

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.		000000	Olaldo	
2.				Number of Dominant Species           That Are OBL, FACW, or FAC:         0         (A)
3.       4.		·		Total Number of Dominant Species Across All Strata: <u>2</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.		·		Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Fragaria virginiana	5	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Poa pratensis	50	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Galium verum	10	No	UPL	data in Remarks or on a separate sheet)
4. Dactylis glomerata	25	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Anthoxanthum odoratum	5	No	FACU	
6. Trifolium pratense	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Lively and strip
3		. <u> </u>		Hydrophytic Vegetation
4		. <u> </u>		Present?         Yes         No         X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL	
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix			Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	10YR 4/1	100					Loamy/Clayey	
<sup>1</sup> Type: C=	Concentration, D=De	oletion R	M=Reduced Matrix C	S=Cove	red or Co:	ated Sand	Grains <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	il Indicators:			0 0010				ematic Hydric Soils <sup>3</sup> :
-	sol (A1)		Polyvalue Below	Surface	(S8) (I R	RR		) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)	Cunado	(00) ( <b>L</b> I			dox (A16) ( <b>LRR K, L, R</b> )
			,	ce (S9) (		II RA 149		
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR R)								
						ce (S9) (LRR K, L)		
	ied Layers (A5) ted Below Dark Surfa		Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R)					
Thick Dark Surface (A12)			Depleted Matrix		-)			blain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mucky Mineral (S1)			Redox Dark Sur		)			A6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gleyed Matrix (S4)			Depleted Dark S	•	,		Red Parent Mate	
	/ Redox (S5)		Redox Depressi		-			irk Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRR				Other (Explain ir	· · · ·
	Surface (S7)			, _/				( internet)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
	e Layer (if observed)		ine ing ine logy inte		Joont, and			
Type:		•						
							Ukudaia Cail Daasaat2	
Depth (i	ncnes):						Hydric Soil Present?	Yes <u>No X</u>
Remarks:								
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)								



Project/Site: CHPE- Flats Road- MP 215.9	City/County: Athens/ Green	ie Samp	bling Date: <u>5/23/2023</u>
Applicant/Owner: CHPE		State: NY	Sampling Point: G-FL-4-Wet
Investigator(s): K. Weiskotten, K. Schumache	r Section, Township, Range:	Coxsackie	
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex,	none): Footslope	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144	B Lat: <u>42° 19' 27.90"</u> Long: <u>7</u>	′3° 49' 44.83"	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck Soi	is	NWI classification:	PEM
Are climatic / hydrologic conditions on the site	ypical for this time of year? Yes X No	(If no, explain in Rem	arks.)
Are Vegetation, Soil, or Hydro	logysignificantly disturbed? Are "Normal	Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydro	logynaturally problematic? (If needed, e	explain any answers in Rem	narks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point location	ons, transects, impo	rtant features, etc.

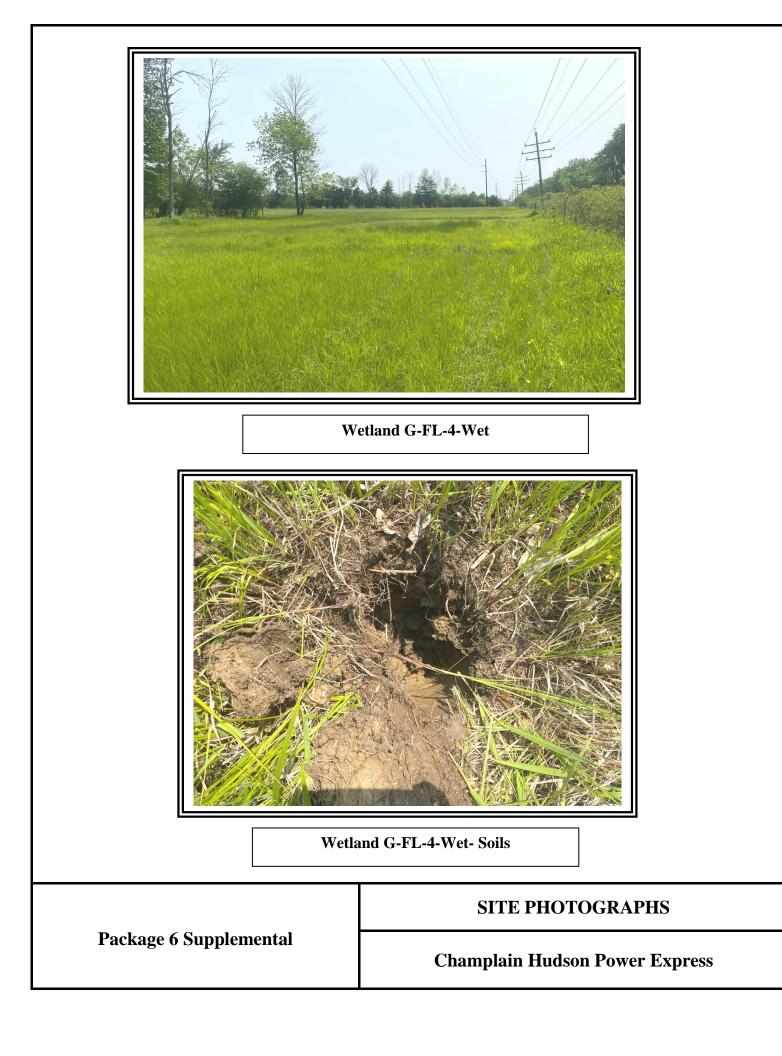
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure	es here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	g Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present?     Yes     No     X     Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
(includes capillary fringe)	
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	

Sampling Point: G-FL-4-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3				Total Number of Dominant Species Across All Strata: 3 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4				UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =
6 7.				Hydrophytic Vegetation Indicators:
· · · · · · · · · · · · · · · · · · ·		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Use Otration (Distaire) El )				
Herb Stratum (Plot size: 5')	50	Voo		X 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^{1}$
1. Phalaris arundinacea	50	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Leersia oryzoides		Yes	OBL	data in Remarks or on a separate sheet)
3. Typha angustifolia	5	<u>No</u>	OBL	
4. Onoclea sensibilis		<u>No</u>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Carex tribuloides	5	<u>No</u>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Sisyrinchium montanum	5	No	FAC	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	5	Yes	FAC	height.
2				It-duants dia
3				Hydrophytic Vegetation
4				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Hydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	3/2     92       3/2     88   interval in the second se	Color (moist)  10YR 3/6  10YR 3/6		Type1           C           C           Image: Control           Image: Contro           Image: Control	<u>Loc<sup>2</sup></u> <u>M</u> 	Texture Loamy/Clayey Loamy/Clayey	Remarks Prominent redox concentrations Prominent redox concentrations
6-14 10YF	8 3/2 88	10YR 3/6			M	Loamy/Clayey	Prominent redox concentrations
Type: C=Concentrat Type: C=Concentrat Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	ion, D=Depletion, rs:	RM=Reduced Matrix, C					
Hydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov			·	Grains. <sup>2</sup> Loca	Ition: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov				Grains. <sup>2</sup> Loca	Ition: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov				Grains. <sup>2</sup> Loca	Ition: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov		ed or Coat	ed Sand	Grains. <sup>2</sup> Loca	Ition: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov			ted Sand	Grains. <sup>2</sup> Loca	ition: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov		ed or Coat	ted Sand	Grains. <sup>2</sup> Loca	ition: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov		ed or Coat	ed Sand	Grains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
ydric Soil Indicator Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	rs:	Polyvalue Belov		ed or Coat	ed Sand	Grains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Histosol (A1) Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers			u Surface				<u> </u>
Histic Epipedon ( Black Histic (A3) Hydrogen Sulfide Stratified Layers	A2)						Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3) Hydrogen Sulfide Stratified Layers	AZ)			(S8) ( <b>LRR</b>	RR,		(A10) ( <b>LRR K, L, MLRA 149B</b> )
Hydrogen Sulfide		MLRA 149B)			DA 440		rie Redox (A16) ( <b>LRR K, L, R</b> )
Stratified Layers	( ) ( )	Thin Dark Surfa					ky Peat or Peat (S3) (LRR K, L, R
-		High Chroma S					Below Surface (S8) (LRR K, L)
		Loamy Mucky N			, L)		Surface (S9) (LRR K, L)
	Dark Surface (A11			.)			anese Masses (F12) ( <b>LRR K, L, R</b>
Thick Dark Surfa	( )	Depleted Matrix					Floodplain Soils (F19) (MLRA 149
Sandy Mucky Mir		X Redox Dark Su					dic (TA6) ( <b>MLRA 144A, 145, 149</b>
Sandy Gleyed Ma		Depleted Dark		-7)			nt Material (F21)
Sandy Redox (St		Redox Depress					ow Dark Surface (TF12)
Stripped Matrix (		Marl (F10) ( <b>LRF</b>	R K, L)			Other (Exp	olain in Remarks)
Dark Surface (S7	")						
, ,		d wetland hydrology mu	ust be pres	sent, unles	ss disturb	ed or problematic.	
estrictive Layer (if Type:	observed):						
Depth (inches):						Hydric Soil Pres	ent? Yes <u>X</u> No
emarks:							
his data form is revis							



Project/Site: CHPE- Flats Road- MP 215.5	City/County: Athens/ Greene	Sampli	ing Date: 4/4/2023
Applicant/Owner: CHPE		State: NY	Sampling Point: G-FL-5-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Coxsac	kie	
Landform (hillside, terrace, etc.): Lake Plains	_ocal relief (concave, convex, none): <u>C</u>	oncave	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 18' 16.0"	Long: <u>73° 50' 10</u>	.0"	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck soils	<u> </u>	IWI classification:	None
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes <u>X</u> No(If r	no, explain in Rema	ırks.)
Are Vegetation, Soil, or Hydrologysignifican	tly disturbed? Are "Normal Circums	tances" present?	Yes X No
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain ar	iy answers in Rema	arks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, tra	nsects, import	tant features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	<b>Is the Sampled Area</b> within a Wetland? If yes, optional Wetland Site ID:	Yes	No X
Remarks: (Explain alternative proced	ures here or in	a separate report.)			

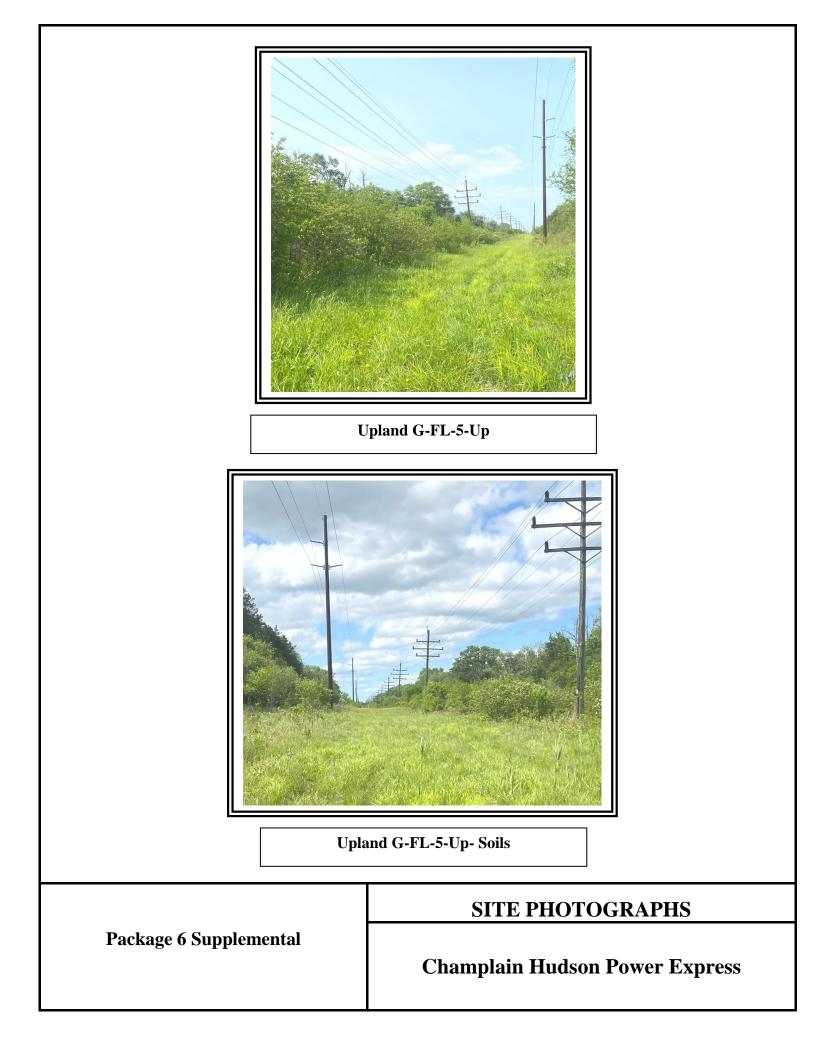
Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)       FAC-Neutral Test (D5)
Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)       Factore (D5)
Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8)Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)Drift Deposits (B3)Presence of Reduced Iron (C4)Stunted or Stressed Plants (D1)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Geomorphic Position (D2)Iron Deposits (B5)Thin Muck Surface (C7)Shallow Aquitard (D3)Inundation Visible on Aerial Imagery (B7)Other (Explain in Remarks)Microtopographic Relief (D4)Field Observations:FAC-Neutral Test (D5)
Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)
Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)
Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)
Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:       Field Concave Surface (B8)
Sparsely Vegetated Concave Surface (B8)     FAC-Neutral Test (D5)       Field Observations:     Factor of the state o
Field Observations:
Current Water Dresents Vac No. V. Donth (inches)
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present?         Yes         No         X         Depth (inches):         Wetland Hydrology Present?         Yes         No         X
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

Sampling Point: G-FL-5-Up

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	opecies:	Otatus	
2.				Number of Dominant Species         That Are OBL, FACW, or FAC:       0         (A)
3.       4.				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1				FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				2 - Dominance Test is >50%
1. Fragaria virginiana	10	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Poa pratensis	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Galium verum	10	No	UPL	data in Remarks or on a separate sheet)
4. Dactylis glomerata	15	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Anthoxanthum odoratum	5	No	FACU	
6. <i>Trifolium pratense</i>	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.	-			Definitions of Vegetation Strata:
8.				-
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	75	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>15'</u> ) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				neight.
				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL
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Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-12	10YR 5/1	100					Loamy/Clayey		
1					<u> </u>		2		
	Concentration, D=De	pletion, RI	M=Reduced Matrix, C	S=Cove	red or Coa	ated Sand		PL=Pore Lining	
-	il Indicators:			. Curfoo			Indicators for Prob	-	
	ol (A1) Epipedon (A2)		Polyvalue Belov MLRA 149B)		e (30) ( <b>LR</b>	<b>к к</b> ,	2 cm Muck (A10 Coast Prairie R		
	Histic (A3)		Thin Dark Surfa						-
	gen Sulfide (A4)		High Chroma Sa		-		Polyvalue Belov		
	ied Layers (A5)		Loamy Mucky M				Thin Dark Surfa		
	ted Below Dark Surfa	ce (A11)	Loamy Gleyed N			•, =/	Iron-Manganes		
	Dark Surface (A12)		Depleted Matrix		_/				) (MLRA 149B)
	/ Mucky Mineral (S1)		 Redox Dark Sur		i)		Mesic Spodic (1		
	Gleyed Matrix (S4)		Depleted Dark S	•	,		Red Parent Mat		,
	Redox (S5)		Redox Depressi				Very Shallow D		12)
Stripp	ed Matrix (S6)		Marl (F10) ( <b>LRF</b>	R K, L)			Other (Explain i	n Remarks)	
Dark S	Surface (S7)								
<sup>3</sup> Indicators	of hydrophytic vegeta	ation and v	vetland hydrology mu	ist be pre	esent, unle	ess distur	bed or problematic.		
Restrictiv	e Layer (if observed)	):							
Type:									
Depth (ii	nches):						Hydric Soil Present?	Yes	<u>No X</u>
Remarks:									
	orm is revised from N	orthcentra	I and Northeast Regi	onal Sup	plement \	/ersion 2.	0 to reflect the NRCS Fiel	d Indicators of ⊢	lydric Soils
version 7.0	) March 2013 Errata.	(http://www	v.nrcs.usda.gov/Inter	net/FSE		ENTS/nrc	s142p2_051293.docx)		



Project/Site: CHPE- Flats Road- MP 215.5	City/County: Athens/ Greene	Sampling Date: 4/4/2023
Applicant/Owner: CHPE	State	e: NY Sampling Point: G-FL-5-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Athens	
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex, none): Footslo	ppe Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 18' 16.0"	Long: 73° 50' 10.0"	Datum:
Soil Map Unit Name: Kingsbury Rhinebeck Soils	NWI cla	assification: PEM
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, exp	blain in Remarks.)
Are Vegetation, Soil, or Hydrologysignifica	ntly disturbed? Are "Normal Circumstances	s" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally	v problematic? (If needed, explain any answ	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transec	cts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Netland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes <u>X</u>	No
Remarks: (Explain alternative procedu	ires here or in a separate report.)			

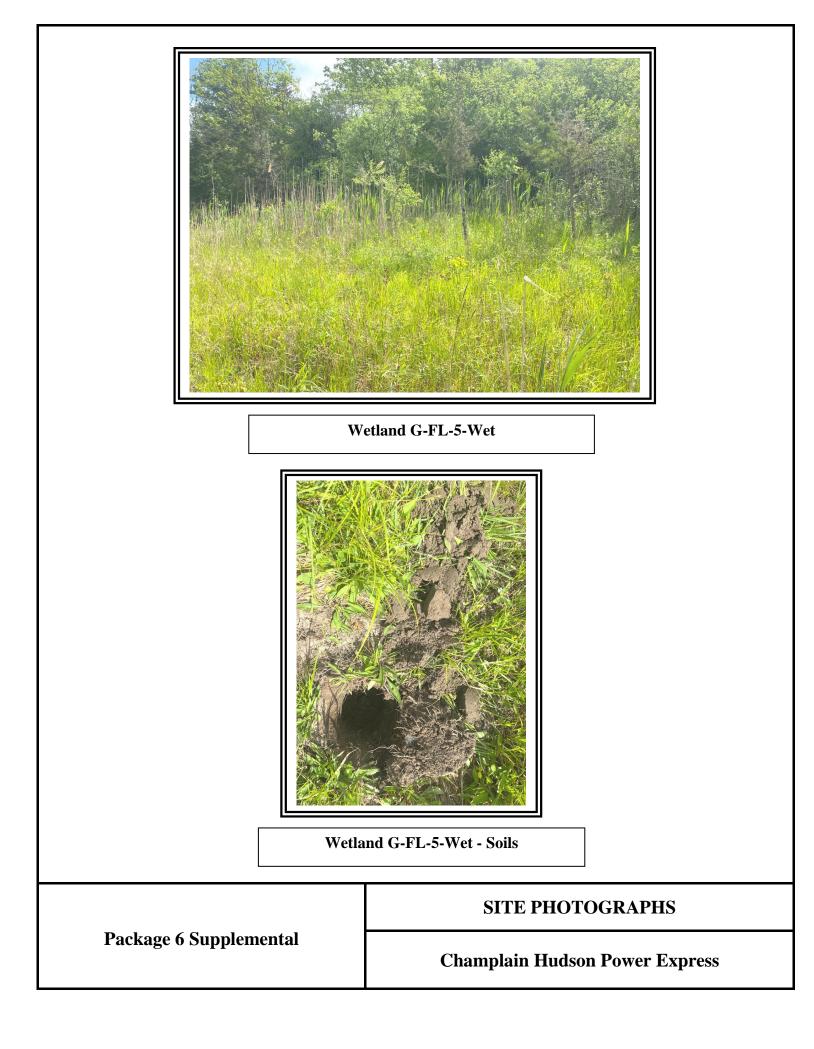
Wetland Hydrology Indicators:						Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)						X Surface Soil Cracks (B6)			
Surface Water (A1)		_	X V	Vater-Stained Leaves (B9)		X Drainage Patterns (B10)			
High Water Table (A2)			A	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)		-	N	/larl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)					Crayfish Burrows (C8)				
Sediment Deposits (B2)			C	Dxidized Rhizospheres on Liv	ring Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)		-	F	Presence of Reduced Iron (C4	4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)			F	Recent Iron Reduction in Tille	d Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		-	Т	hin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aer	rial Imagery (E	37) -	C	Other (Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)						FAC-Neutral Test (D5)			
Field Observations:									
Surface Water Present?	Yes	No	Х	Depth (inches):					
Water Table Present?	Yes	No	Х	Depth (inches):					
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland Hy	vdrology Present? Yes X No			
Saturation Present? (includes capillary fringe)	Yes	No	X		Wetland Hy	rdrology Present? Yes X No			
				Depth (inches):					
(includes capillary fringe)				Depth (inches):					
(includes capillary fringe)				Depth (inches):					
(includes capillary fringe)				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
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(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stre				Depth (inches):					

Sampling Point: G-FL-5-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Juniperus virginiana	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3				Total Number of Dominant Species Across All Strata: 6 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Viburnum lentago	10	Yes	FAC	FACW species x 2 =
2. Rhamnus cathartica	10	Yes	FAC	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phragmites australis	15	Yes	FACW	$3 - \text{Prevalence Index is } \le 3.0^1$
0 Banataman disitalia	10	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. Carex utriculata	5	No	OBL	
4. Lythrum salicaria	15	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ol> <li>Solidago canadensis</li> <li>6.</li> </ol>	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	60	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size: 15')           1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			1
	,			

SOI	
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0-8 10Y	(moist) % R 3/1 100 R 2/2 95 	Color (moist)		ype1         Loc2           C         M	Loamy/Clayey	Remarks Distinct redox concentrations
		10YR 4/4		<u>с</u> м 		Distinct redox concentrations
8-16 10Y	R 2/2 95	10YR 4/4		СМ	Loamy/Clayey	Distinct redox concentrations
,,		RM=Reduced Matrix, C	S=Covered	or Coated Sa		tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicate	ors:					Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	(4.2)	Polyvalue Below	Surface (S8	8) ( <b>LRR R,</b>		(A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epipedon Black Histic (A3		MLRA 149B) Thin Dark Surfac				irie Redox (A16) ( <b>LRR K, L, R</b> ) ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen Sulfic		High Chroma Sa				Below Surface (S8) (LRR K, L, K)
Stratified Layers		Loamy Mucky M				Surface (S9) (LRR K, L)
	Dark Surface (A11)	Loamy Gleyed N		, _/		anese Masses (F12) (LRR K, L, R)
Thick Dark Surf		Depleted Matrix				Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky M	· · · ·	X Redox Dark Surf				dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gleyed N		Depleted Dark S				nt Material (F21)
Sandy Redox (S		Redox Depression				ow Dark Surface (TF12)
Stripped Matrix		 Marl (F10) ( <b>LRR</b>				blain in Remarks)
Dark Surface (S		、 、 、 、 、	. ,		、 .	
, ,		wetland hydrology mus	st be presen	nt, unless dis	turbed or problematic.	
Restrictive Layer (i	observed):					
Type:						
Depth (inches):					Hydric Soil Pres	ent? Yes <u>X</u> No
Remarks:						
		al and Northeast Regic /w.nrcs.usda.gov/Interr				S Field Indicators of Hydric Soils



Project/Site: C	HPE- Flats Road- MP 214.0	City/County: Coxsackie/ Gre	ene	Sampling D	Date: <u>4/4/20</u>	ງ23
Applicant/Owner	CHPE		State:	NY Sam	npling Point:	G-FL-8-Up
Investigator(s):	K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie			
Landform (hillside	le, terrace, etc.): Lake Plains	Local relief (concave, convex, i	none): <u>Concave</u>		Slope (%)	: <u> </u>
Subregion (LRR	or MLRA): LRR R, MLRA 144B	Lat: <u>42° 19' 27.90"</u> Long: <u>7</u>	3° 49' 44.83"		Datum:	
Soil Map Unit Na	ame: Kingsbury Rhinebeck soils		NWI classi	ification: Non	ie	
Are climatic / hyd	drologic conditions on the site typi	cal for this time of year? Yes X No	(If no, explai	in in Remarks.)	)	
Are Vegetation	, Soil, or Hydrolog	ysignificantly disturbed? Are "Normal	Circumstances" p	present?	Yes <u>X</u> I	No
Are Vegetation	, Soil, or Hydrolog	ynaturally problematic? (If needed, ex	explain any answer	rs in Remarks.	.)	
SUMMARY C	OF FINDINGS – Attach site	e map showing sampling point locatio	ons, transects	, importan	t features	, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No X
Remarks: (Explain alternative proced	ures here or in	a separate report.)			

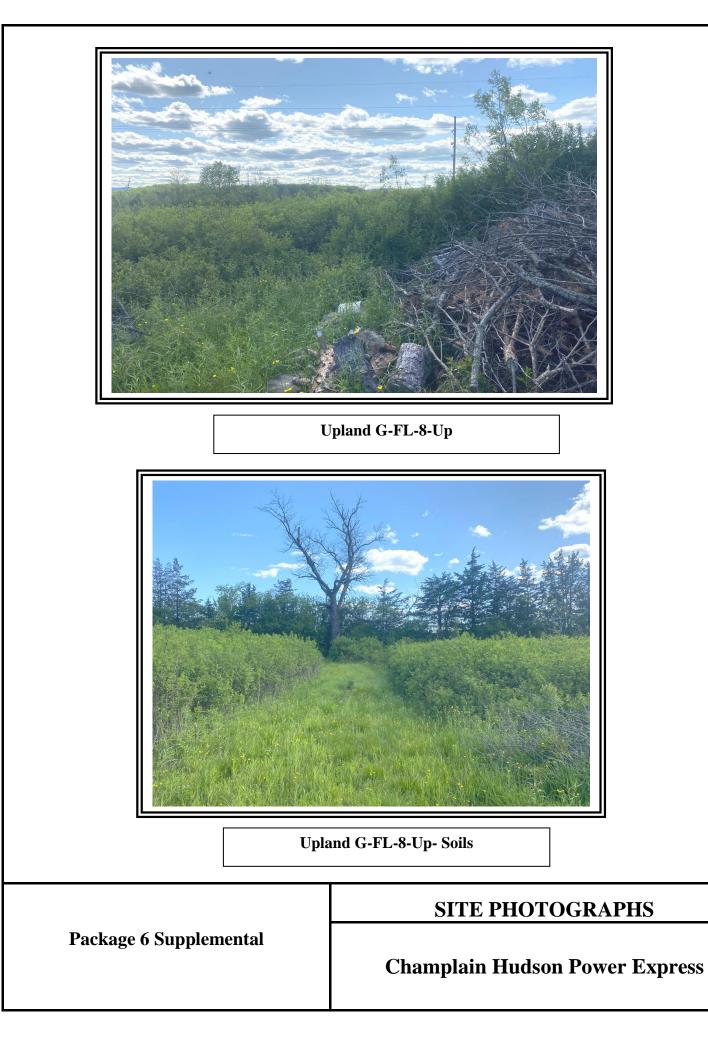
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (	(C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6	6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): Wetlan	nd Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	f available:
Remarks:	

Sampling Point: G-FL-8-Up

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1.       2.		<u></u>		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
···		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Dactylis glomerata	10	Yes	FACU	$3 - Prevalence Index is \leq 3.0^1$
2. Poa pratensis	25	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Anthoxanthum odoratum	10	Yes	FACU	data in Remarks or on a separate sheet)
	5	No	FACU	
4. Trifolium pratense				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Phalaris arundinacea	10	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. <u>Galium verum</u>	10	Yes	UPL	be present, unless disturbed or problematic.
7		·		Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)		_	

SOIL
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nches)	Depth Matrix			x Feature						
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks	
0-12	10YR 3/2	100					Loamy/Clayey			
							<u> </u>			
							<u> </u>			
	oncentration, D=Deple	tion, RM	=Reduced Matrix, C	S=Cove	red or Coa	ated Sand		PL=Pore Lining		х.
	Indicators:			o (			Indicators for Prob	•		•••
Histosol	( )	-	Polyvalue Below	/ Surface	e (S8) ( <b>LR</b>	R R,	2 cm Muck (A10			
-	pipedon (A2)		MLRA 149B)	(00) (			Coast Prairie Re			
	istic (A3)	-	Thin Dark Surfa							
	en Sulfide (A4)	-	High Chroma Sa	-			Polyvalue Below			)
	d Layers (A5)		Loamy Mucky M	-		K, L)	Thin Dark Surface		-	_
	d Below Dark Surface	(A11) _	Loamy Gleyed N		2)		Iron-Manganese		-	
	ark Surface (A12)	-	Depleted Matrix				Piedmont Flood	-		
-	Mucky Mineral (S1)	-	Redox Dark Sur				Mesic Spodic (T		<del>1</del> A, 145, 1	491
	Gleyed Matrix (S4)	-	Depleted Dark S	•	,		Red Parent Mate	· · /	10)	
-	Redox (S5)	-	Redox Depressi				Very Shallow Da		12)	
	d Matrix (S6)	-	Marl (F10) ( <b>LRR</b>	( <b>r</b> , L)			Other (Explain in	r Remarks)		
_Dark Su	ırface (S7)									
diaatara a	f hydrophytic ycactotic	on and w	otland hydrology mu	at he pro	agent unla	oo diaturk	and or problematic			
	f hydrophytic vegetatio Layer (if observed):		elland hydrology mu	ist be pre	sent, unic	55 0151011				
Type:										
							Ukudaia Cail Daacaat2	Vee	Na	
	ches):						Hydric Soil Present?	Yes	No	



Project/Site: CHPE- Flats Road- MP 215.0	City/County: Coxsackie/ Gre	Sampling Date:	5/25/2023	
Applicant/Owner: CHPE		State:	NY Sampling	Point: G-FL-8-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie		
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex,	none): Footslope	Slo	ope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 18' 33.0"	Long: 7	3° 50' 4.0"	Datu	m:
Soil Map Unit Name: Kingsbury Rhinebeck Soils		NWI classific	cation: PSS	
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes <u>X</u> No	(If no, explain i	n Remarks.)	
Are Vegetation, Soil, or Hydrologysignificar	tly disturbed? Are "Normal	Circumstances" pre	sent? Yes	X No
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, e	explain any answers	in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point location	ons, transects, i	important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?		X X X	No No No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu	res here o	r in a s	separate report.)	

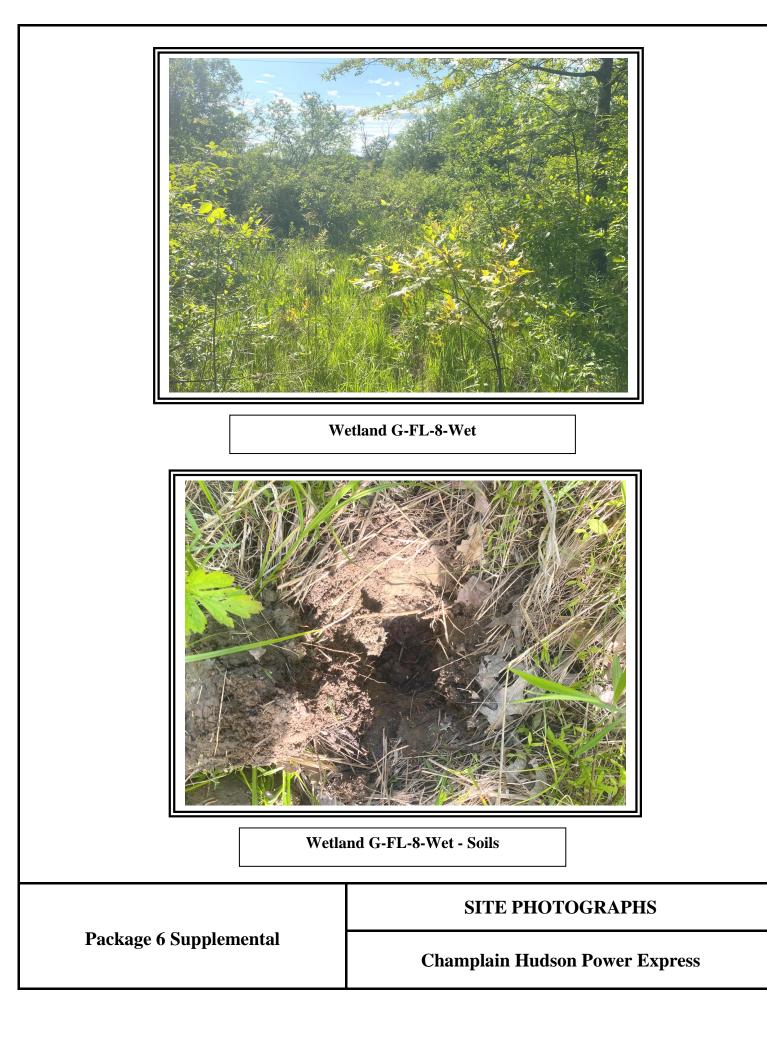
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	X Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (B9	) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on	Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron	(C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in 1	illed Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks	) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	=
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	nspections), if available:
Remarks:	

Sampling Point: G-FL-8-Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	10	Yes	FACU	
2				Number of Dominant Species         That Are OBL, FACW, or FAC:       5         (A)
3				Total Number of Dominant         Species Across All Strata:       6         (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Viburnum lentago	25	Yes	FAC	FACW species x 2 =
2. Cornus racemosa	25	Yes	FAC	FAC species x 3 =
3. Viburnum dentatum	15	No	FAC	FACU species x 4 =
4. Fraxinus americana	10	No	FACU	UPL species x 5 =
5. Lonicera tatarica	10	No	FACU	Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	10	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	10	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Phalaris arundinacea	10	Yes	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				_
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	30	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>15'</u> ) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				- noight.
2				Hydrophytic
	·			Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	irate sheet.)			

SOIL
------

	Matrix			x Feature				Deveeder		
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
)-14	10YR 2/1	80	10YR 6/8	20	С	М	Loamy/Clayey	Promi	nent redox conc	entration
	Concentration, D=Deple	tion RM	=Reduced Matrix C	S=Cove	ed or Coa	ted Sand	Grains <sup>2</sup> Loc	ation: PL:	=Pore Lining, M	=Matrix
	Indicators:			0010					atic Hydric Soi	
Histoso			Polyvalue Belov	v Surface	(S8) ( <b>LR</b>	R R,			RR K, L, MLRA	
Histic E	Epipedon (A2)	-	MLRA 149B)		. , .				x (A16) ( <b>LRR K</b> ,	-
Black H	listic (A3)		Thin Dark Surfa	ice (S9) (	LRR R, M	LRA 149	<b>B</b> ) 5 cm Muc	ky Peat o	r Peat (S3) ( <b>LR</b>	R K, L, F
Hydrog	en Sulfide (A4)	_	High Chroma Sa	ands (S1	1) ( <b>LRR K</b>	, L)	Polyvalue	Below Su	urface (S8) ( <b>LRF</b>	R K, L)
Stratifie	ed Layers (A5)		Loamy Mucky M	/lineral (F	1) ( <b>LRR K</b>	ζ, L)	Thin Dark	Surface (	(S9) ( <b>LRR K, L</b> )	
Deplete	ed Below Dark Surface	(A11)	Loamy Gleyed I	Matrix (F2	2)		Iron-Mang	anese Ma	asses (F12) ( <b>LR</b>	R K, L, I
Thick D	ark Surface (A12)		Depleted Matrix	: (F3)			Piedmont	Floodplai	n Soils (F19) ( <b>N</b>	ILRA 14
Sandy	Mucky Mineral (S1)	_	X Redox Dark Sur	rface (F6)	)		Mesic Spo	odic (TA6)	) (MLRA 144A,	145, 149
Sandy	Gleyed Matrix (S4)	_	Depleted Dark S	Surface (I	-7)		Red Pare	nt Materia	l (F21)	
Sandy	Redox (S5)	_	Redox Depress	ions (F8)			Very Shal	low Dark	Surface (TF12)	
Strippe	d Matrix (S6)	_	Marl (F10) ( <b>LRF</b>	R K, L)			Other (Ex	plain in R	emarks)	
Dark Su	urface (S7)									
	of hydrophytic vegetatic	on and w	etland hydrology mu	ust be pre	sent, unle	ss disturt	bed or problematic.			
	Layer (if observed):									
							Ukuduja Caji Dua		Vee V	Na
	ches):						Hydric Soil Pres	sent?	Yes X	No



Project/Site: CHPE- Package 6- 0	Greene County Gra	isslands (	City/County: Coxsackie/ Greene	Sampling Date: 8/30/2022
Applicant/Owner: CHPE			State: NY	Sampling Point: GP6-F-Up
Investigator(s): K. Weiskotten, K. S	Schumacher		Section, Township, Range: Town	of Coxsackie
Landform (hillside, terrace, etc.):	Lake Plains	Local re	lief (concave, convex, none): <u>Concave</u>	Slope %: 0
Subregion (LRR or MLRA): LRR	R, MLRA 144B La	at: 42°,22',05.00' 'N	Long: <u>-73°,48',57.00"</u>	Datum:
Soil Map Unit Name: Elmridge Sa	ndy Loams		NWI classification	n: None
Are climatic / hydrologic conditions	on the site typical f	or this time of year?	Yes <u>X</u> No (If no	, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbe	ed? Are "Normal Circumstances" pre	esent? Yes X No
Are Vegetation, Soil	, or Hydrology	naturally problemation	c? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS -	- Attach site m	ap showing samp	ling point locations, transects, i	mportant features, etc.
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area	
Hydric Soil Present?	Yes	No X	within a Wetland? Yes	No X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:	

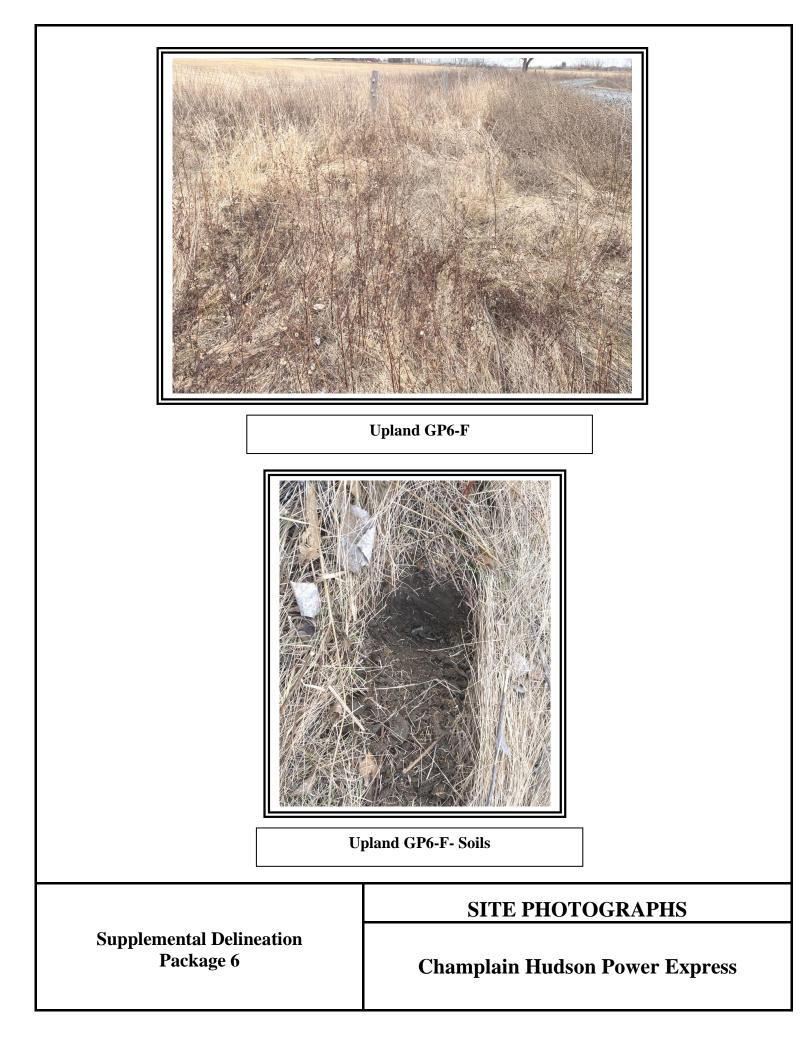
Remarks: (Explain alternative procedures here or in a separate report.)

Wetland Hydrology Indicators:			Secondary Indicators (min	imum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks (E	36)		
Surface Water (A1)	Water-Stained Leaves (B9)		X Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Tal	ble (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living F	Roots (C3)	Saturation Visible on A	Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	ls (C6)	Geomorphic Position (	(D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	<ul> <li>Other (Explain in Remarks)</li> </ul>		Microtopographic Relie	ef (D4)		
Sparsely Vegetated Concave Surface (E	38)		FAC-Neutral Test (D5)	)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
	Bepar (nones).					
Saturation Present? Yes	No X Depth (inches):	Wetlar	nd Hydrology Present?	Yes No X		
		Wetlar	nd Hydrology Present?	Yes NoX		
Saturation Present? Yes	No X Depth (inches):			Yes <u>No X</u>		
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):			Yes NoX		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			YesNoX		
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):			Yes NoX		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			Yes <u>No X</u>		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			YesNo_X_		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			Yes No X		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			YesNoX		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			Yes No X		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			Yes <u>No X</u>		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			Yes <u>No X</u>		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):			YesNoX		

Sampling Point: GP6-F-Up

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<ol> <li>Fraxinus americana</li> <li>2.</li> </ol>	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species Across All Strata: 5 (B)
5.       6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =
1. Rubus allegheniensis	5	Yes	FACU	FACW species x 2 =
2.				FAC species x 3 =
3				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
1. <u>Centaurea stoebe</u>	15	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Phalaris arundinacea	5	No	FACW	data in Remarks or on a separate sheet)
4. Schizachyrium scoparium	15	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				_
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	55	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum     (Plot size:)       1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Verstation
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ				1

Profile Desc	ription: (Describe t	to the de	oth needed to docu	ument th	ne indica	tor or co	onfirm the absence of in	ndicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	10YR 3/3	100					Loamy/Clayey	
0-14	1011X 3/3	100					Loamy/Clayey	
·								
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RN	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.		Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck	: (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast Prai	rie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	) (LRR R	, MLRA 1	149B)5 cm Muck	y Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Dark	Surface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manga	anese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont F	Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	<sup>-</sup> 6)		Mesic Spo	dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			t Material (F21)
	edox (S5)		Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		 Marl (F10) ( <b>LR</b>		- /			lain in Remarks)
Dark Sur				, _, _,				,
<sup>3</sup> Indicators of	hydrophytic vegetati	ion and w	etland hydrology mi	ist be pr	resent ur	nless dist	urbed or problematic.	
	ayer (if observed):		onana nyarorogy ma					
Type:	<b>"""</b> "							
	-1						libertain On il Duce and f	
Depth (in	cnes):						Hydric Soil Present?	? Yes <u>No X</u>
Remarks:								
			•					Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	JUMENT	S/nrcs14	2p2_051293.docx)	



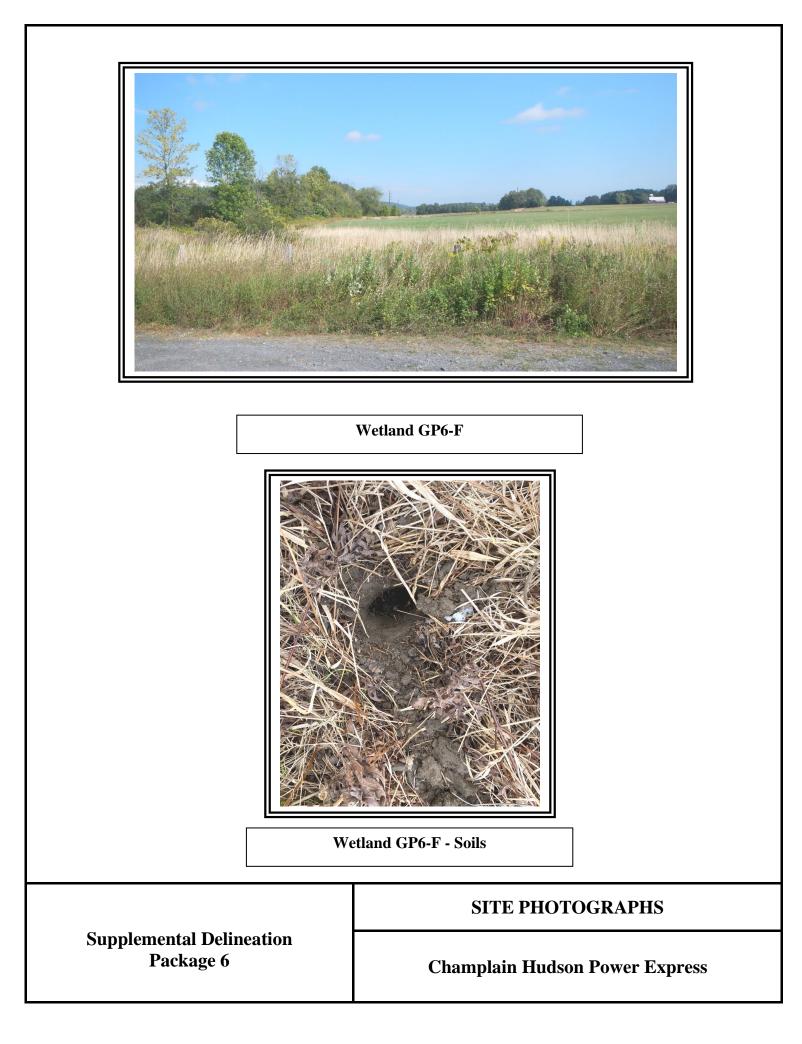
Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-F-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie
	relief (concave, convex, none): Concave Slope %: 0
	Long: -73°,48',57.00" Datum:
Soil Map Unit Name: Elmridge Sandy Loams	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problemat	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	oling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (B	39) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres o	n Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Irol	n (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	(D4) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	6 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:

Remarks:

Sampling Point: GP6-F-Wet

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	5	Yes	FACU	Number of Densingert On a size
2. Ulmus americana	5	Yes	FACW	Number of Dominant Species         That Are OBL, FACW, or FAC:         4
3. 4.				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15	)			OBL species x 1 =
1. Lonicera tatarica	15	Yes	FACU	FACW species x 2 =
2. Cornus racemosa	15	Yes	FAC	FAC species x 3 =
3.				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Phalaris arundinacea	20	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phragmites australis	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Onoclea sensibilis	5	No	FACW	data in Remarks or on a separate sheet)
4. Lythrum salicaria	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15	)			Woody vines – All woody vines greater than 3.28 ft in
1. Vitis riparia	5	Yes	FAC	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet.)			
	,			

		to the dep				ator or co	onfirm the absence of	indicators.)
Depth (inchoo)	Matrix	0/		x Featur		Loc <sup>2</sup>	Touturo	Domorko
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		Texture	Remarks
0-12	7.5YR 2.5/2	92	7.5YR 5/6	8	C	PL	Loamy/Clayey	Prominent redox concentrations
	·	<u> </u>						
		. <u> </u>						
	·							
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion RM	=Reduced Matrix	MS=Mas	ked Sand	Grains	<sup>2</sup> l ocation <sup>-</sup> Pl	L=Pore Lining, M=Matrix.
Hydric Soil								or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	ow Surfa	ce (S8) (I	LRR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)	-	MLRA 149E		( )(	,		airie Redox (A16) ( <b>LRR K, L, R</b> )
	istic (A3)		Thin Dark Sur	,	) (LRR R	, MLRA 1		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	en Sulfide (A4)	-	High Chroma		-			e Below Surface (S8) (LRR K, L)
	d Layers (A5)	-	Loamy Mucky	-				k Surface (S9) ( <b>LRR K, L</b> )
Deplete	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Man	iganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick D	ark Surface (A12)	-	Depleted Matr	ix (F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy N	/lucky Mineral (S1)		X Redox Dark S	urface (F	6)		Mesic Sp	oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy C	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)
Sandy F	Redox (S5)	-	? Redox Depres	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	d Matrix (S6)		Marl (F10) ( <b>LF</b>	RR K, L)			Other (E	xplain in Remarks)
Dark Su	ırface (S7)							
			etland hydrology m	ust be pr	resent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (i	nches):						Hydric Soil Presen	nt? Yes <u>X</u> No
Remarks:								
This data for	rm is revised from No	rthcentral	and Northeast Reg	ional Su	pplement	t Version	2.0 to include the NRC	S Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	/ww.nrcs.u	sda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	

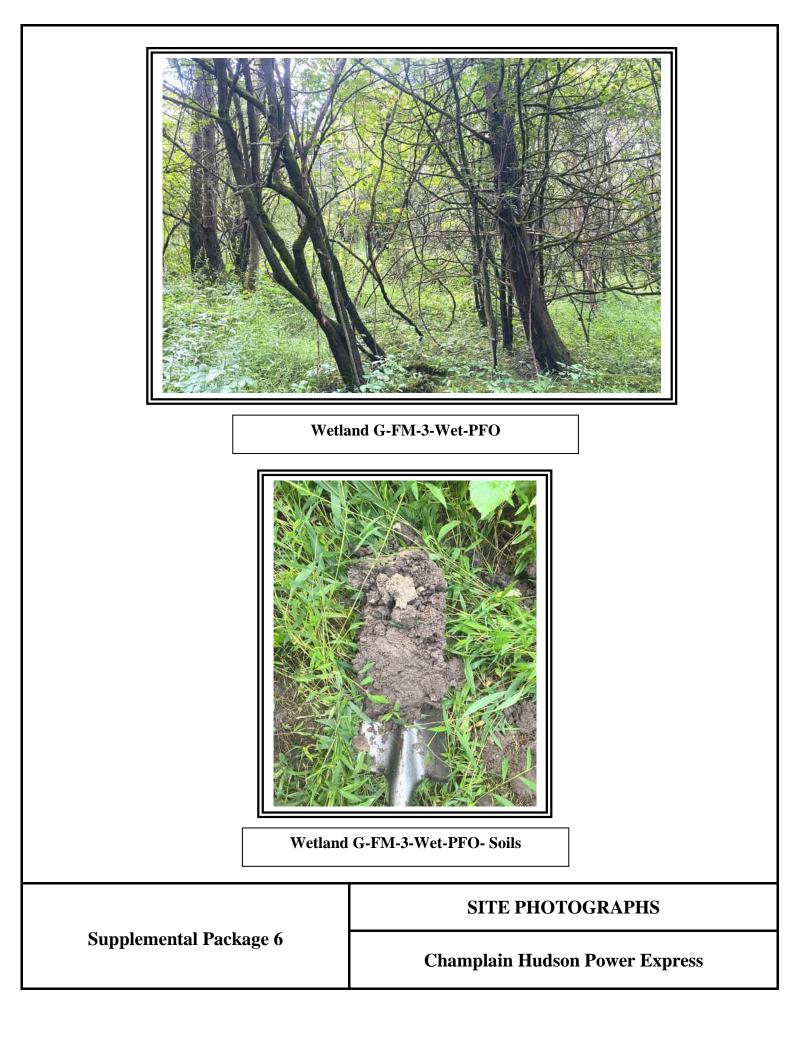


Project/Site: CHPE - Flintmine Road South - MP 212.8, G-FM-3,	PFO City/County: Coxsackie/Greene Sampling Date: 8/16//2023
Applicant/Owner: CHPE	State: NY Sampling Point: FM-3-Wel-1
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Coxsackie
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 20' 22	
Soil Map Unit Name: Kingsbury Rhinebeck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrologysignifi	
Are Vegetation, Soil, or Hydrologynatura	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present?         Yes         X         No           Wetland Hydrology Present?         Yes         X         No	within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate	report.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	
	ined Leaves (B9) Drainage Patterns (B10)
	auna (B13) Moss Trim Lines (B16)
	bsits (B15) Dry-Season Water Table (C2)
	Sulfide Odor (C1) Crayfish Burrows (C8)
	Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4) Stunted or Stressed Plants (D1)
	on Reduction in Tilled Soils (C6) Geomorphic Position (D2)
	<pre>surface (C7)</pre> Shallow Aquitard (D3)
	plain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	`,,,,,,,,,,_
	nches):
	nches):
	nches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if available:
Remarks:	

Sampling Point: \_\_\_\_\_FM-3-Wet-1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u> ) 1. <i>Acer rubrum</i>	% Cover 20	Species? Yes	Status FAC	Dominance rest worksneet.
Acer rubrum     Fraxinus pennsylvanica		Yes	FAC	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:6(A)
3. Thuja occidentalis	10	No	FACW	
4. Larix laricina	10		FACW	Total Number of DominantSpecies Across All Strata:66(B)
<ol> <li>Lanx lancina</li> <li>Pinus strobus</li> </ol>	<del>5</del>	<u>No</u> No	FACU	
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
··	 55	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15' )				OBL species         x 1 =
1. Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =
2. Fraxinus pennsylvanica	10	Yes	FACW	FAC species x 3 =
3.				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6.		·		Prevalence Index = B/A =
7.		·		Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Solidago altissima	5	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Microstegium vimineum	40	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11		- <u> </u>		and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	45	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft ir
1. Toxicodendron radicans	20	Yes	FAC	height.
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
	20	=Total Cover		
Remarks: (Include photo numbers here or on a separation of the sep	rate sheet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix Redox Features											
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-10	10YR 2/1	97	10YR 4/6	3	C	M	Loamy/Clayey	Prominent redox concentrations			
10-15	10YR 3/2	85	10YR 4/6	15	_ <u>C</u>	M	Loamy/Clayey	Prominent redox concentrations			
17.0											
,	il Indicators:	epletion, R	M=Reduced Matrix, 0	US=Cove	red or Co	ated Sar		cation: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :			
-	ol (A1)		Polyvalue Belov		(S8) (I E			ck (A10) ( <b>LRR K, L, MLRA 149B</b> )			
	Epipedon (A2)		MLRA 149B)		; (30) ( <b>L</b> R	ι <b>η η</b> ,		airie Redox (A16) ( <b>LRR K, L, R</b> )			
			,								
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (L											
	gen Sulfide (A4)		High Chroma S					e Below Surface (S8) ( <b>LRR K, L</b> )			
	ied Layers (A5)		Loamy Mucky N			K, L)		k Surface (S9) ( <b>LRR K, L</b> )			
	ted Below Dark Surfa	ace (A11)	Loamy Gleyed		2)			iganese Masses (F12) ( <b>LRR K, L, R</b> )			
	Dark Surface (A12)		Depleted Matrix	· · /			Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy	Mucky Mineral (S1)		X Redox Dark Su	rface (F6	)		Mesic Sp	Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )			
Sandy	Gleyed Matrix (S4)		Depleted Dark \$	Surface (I	F7)		Red Parent Material (F21)				
Sandy	Redox (S5)		Redox Depress	ions (F8)			Very Sha	allow Dark Surface (TF12)			
Strippe	ed Matrix (S6)		Marl (F10) (LRF	R K, L)			Other (E	Other (Explain in Remarks)			
Dark S	Surface (S7)										
31 11 1											
	e Layer (if observed		wetland hydrology m	ust be pre	esent, uni	ess disti	Irbed or problematic				
Type:		·)·									
Depth (ir	nches):						Hydric Soil Pre	esent? Yes <u>X</u> No			
Remarks:							····				
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)											
version 7.0	March 2013 Errata.	(nup.//ww	w.mcs.usda.gov/me			EN I S/III	ics142p2_051293.d	0CX)			



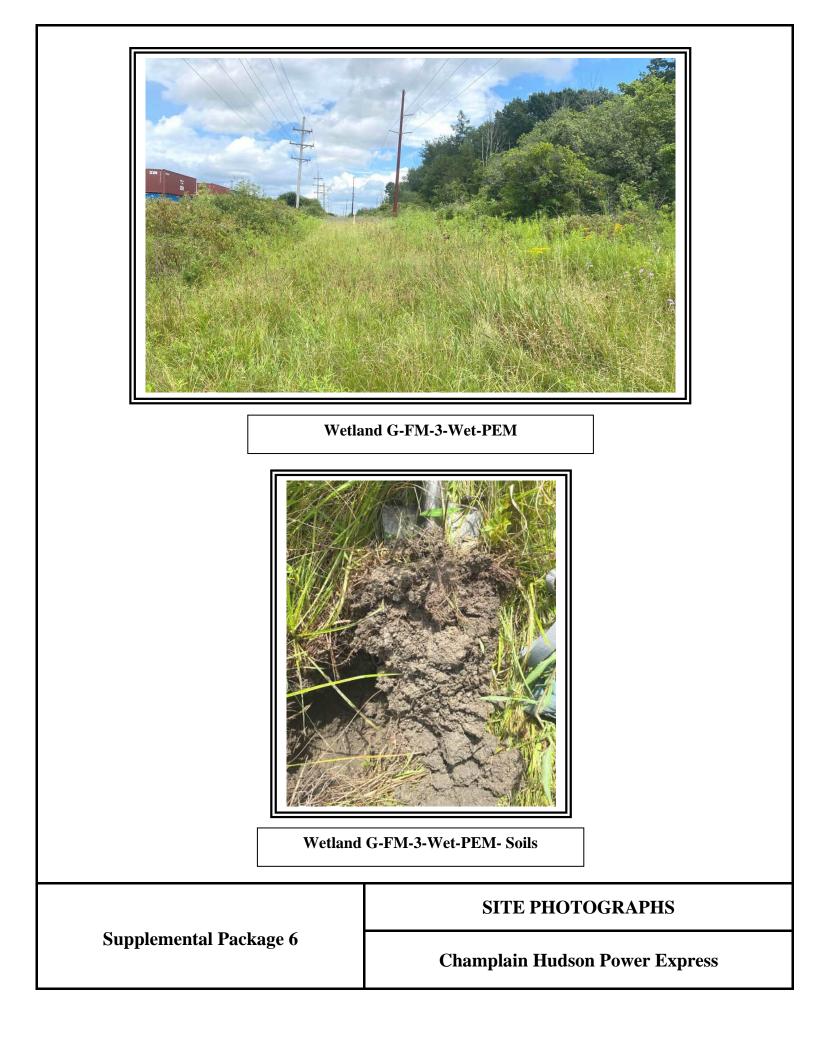
Project/Site: CHPE - Flintmine Road South - MP 212.8, G-FM-3, PEM City/County: Coxsackie/Greene Sampling Date: 8/16//2023
Applicant/Owner: CHPEState: NY Sampling Point: FM-3-Wet-2
Investigator(s): K. Weiskotten, K. Schumacher Section, Township, Range: Coxsackie
Landform (hillside, terrace, etc.): Lake Plains Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR or MLRA): LRR R, MLRA 144B         Lat: 42° 20' 22.47"         Long: 73° 49' 17.61"         Datum:
Soil Map Unit Name: Kingsbury Rhinebeck NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes _X No
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area
Hydric Soil Present?         Yes X         No         within a Wetland?         Yes X         No
Wetland Hydrology Present?         Yes X         No         If yes, optional Wetland Site ID:
HYDROLOGY
Wetland Hydrology Indicators:       Secondary Indicators (minimum of one is required; check all that apply)       Surface Water (A1)       X       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         Might Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         X       Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stuntad or Stressed Plants (D1)         Adgal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inon Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       X       Depth (inches):       Wetland Hydrology Present? Yes       No         Sutration Present?       Yes       No       X       Depth (inches):       Metland Hydrology Present? Yes       No         Gincludes capillary fringe)       Depth (inches):       8       Wetland Hydrology Present? Yes       No       No
Remarks:

Sampling Point: \_\_\_\_\_FM-3-Wet-2\_\_\_

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
		<u>·</u>		
1.       2.				Number of Dominant Species         That Are OBL, FACW, or FAC:       6         (A)
3 4				Total Number of Dominant Species Across All Strata: 7 (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Viburnum lentago	5	Yes	FAC	FACW species x 2 =
2. Cornus racemosa	5	Yes	FAC	FAC species x 3 =
3. Salix purpurea	5	Yes	FACW	FACU species x 4 =
1				UPL species x 5 =
				Column Totals:         (A)         (B)
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
1	 15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
	5	No	FACW	$3$ - Prevalence Index is $\leq 3.0^{1}$
1. Onoclea sensibilis		<u>No</u>		——
2. Carex stricta	5	<u>No</u>	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Monarda didyma	5	<u>No</u>	FAC	
4. <i>Phragmites australis</i>	10	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Leersia oryzoides</u>	20	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Scirpus cyperinus	15	Yes	OBL	be present, unless disturbed or problematic.
7. Solidago altissima	10	Yes	FACU	Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15' )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

SOIL	
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-4	10YR 2/1	100					Loamy/Clayey			
4-14	10YR 3/2	95	10YR 4/6	5	_C_	<u>M</u>	Loamy/Clayey	Promine	ent redox conce	entrations
	·									
1Tupo: C			M=Reduced Matrix, C					cation: DI -	Pore Lining, M=	Motrix
	bil Indicators:			53-000		aleu Sai			tic Hydric Soil	-
-	sol (A1)		Polyvalue Belov	v Surface	e (S8) ( <b>LF</b>	RR.			RR K, L, MLRA	
	Epipedon (A2)		MLRA 149B)		e (ee) ( <u>-</u> -	,			(A16) ( <b>LRR K</b> ,	-
	Histic (A3)		Thin Dark Surfa		LRR R. N	ILRA 149			Peat (S3) ( <b>LRR</b>	-
	ogen Sulfide (A4)		High Chroma Sa					-	face (S8) ( <b>LRR</b>	
	fied Layers (A5)		Loamy Mucky M						69) (LRR K, L)	<b>N</b> , <b>L</b> )
	ted Below Dark Surfa	(A11)	Loamy Gleyed N			<b>(, ∟</b> )		-	sses (F12) ( <b>LRF</b>	
·	Dark Surface (A12)		Depleted Matrix	-	2)			-	Soils (F19) ( <b>MI</b>	-
	y Mucky Mineral (S1)		X Redox Dark Sur	· /	3			•	(MLRA 144A, 1	,
	y Gleyed Matrix (S4)									43, 1430)
	• • • • • •		Depleted Dark S		-			ent Material		
	y Redox (S5)		Redox Depress		)				urface (TF12)	
Stripped Matrix (S6)Marl (F10) (LRR K, L)Other (Explain in						xpiain in Rer	marks)			
Dark Surface (S7)										
<sup>3</sup> Indicators	s of hydrophytic veget	ation and	wetland hydrology mu	ust be pr	esent, unl	ess distu	rbed or problemation	<b>C</b> .		
Restrictiv	e Layer (if observed	):								
Туре:										
Depth (i	nches):						Hydric Soil Pre	esent?	Yes X	No
Remarks:		0 0 0								
			al and Northeast Regi						licators of Hydri	ic Soils
version 7.	0 March 2013 Errata.	(http://ww	w.nrcs.usda.gov/Inter	net/FSE	_DOCUM	ENTS/nr	cs142p2_051293.d	ocx)		



Project/Site: CHPE - Flintmine Road South - MP 21	2.8, G-FM-3 Cit	y/County: Coxsackie/Gr	eene	Sampling Date:	8/16/2023
Applicant/Owner: CHPE			State:	NY Sampling	Point: FM-3-Up
Investigator(s): K. Weiskotten, K. Schumacher	Se	ction, Township, Range	Coxsackie		
Landform (hillside, terrace, etc.): Lake Plains	Loca	I relief (concave, convex	, none): Concave	Slo	ope (%): 0
Subregion (LRR or MLRA): LRR R, MLRA 144B La	t: 42° 20' 22.47"	Long:	73° 49' 17.61"	Datu	
Soil Map Unit Name: Kingsbury Rhinebeck		3 _		fication: None	
Are climatic / hydrologic conditions on the site typical	for this time of year?	Yes X No		n in Remarks.)	
Are Vegetation, Soil, or Hydrology _	-				<u>X</u> No
Are Vegetation, Soil, or Hydrology	naturally prob	lematic? (If needed,	explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS – Attach site m			ions, transects	, important fea	atures, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X No X	Is the Sampled Area within a Wetland?	Vas	No X	
Wetland Hydrology Present? Yes	$-\frac{NO}{NO} \frac{X}{X}$	If yes, optional Wetlan			
HYDROLOGY					
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; cheat         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         No       X         Water Table Present?       Yes         No       X         Saturation Present?       Yes         No       X         Gaturation Present?       Yes         No       X	Water-Stained Lea Aquatic Fauna (B' Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Other (Explain in F	13) 5) Odor (C1) heres on Living Roots (C ced Iron (C4) ction in Tilled Soils (C6) e (C7) Remarks)	<ul> <li>Surface So</li> <li>Drainage F</li> <li>Moss Trim</li> <li>Dry-Seaso</li> <li>Crayfish Bu</li> <li>Saturation</li> <li>Stunted or</li> <li>Geomorph</li> <li>Shallow Ao</li> <li>Microtopog</li> </ul>	cators (minimum o pil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2 urrows (C8) Visible on Aerial In Stressed Plants (D ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5) t? Yes	) nagery (C9) )1)
Remarks:	well, aerial photos, p	previous inspections), if a	available:		

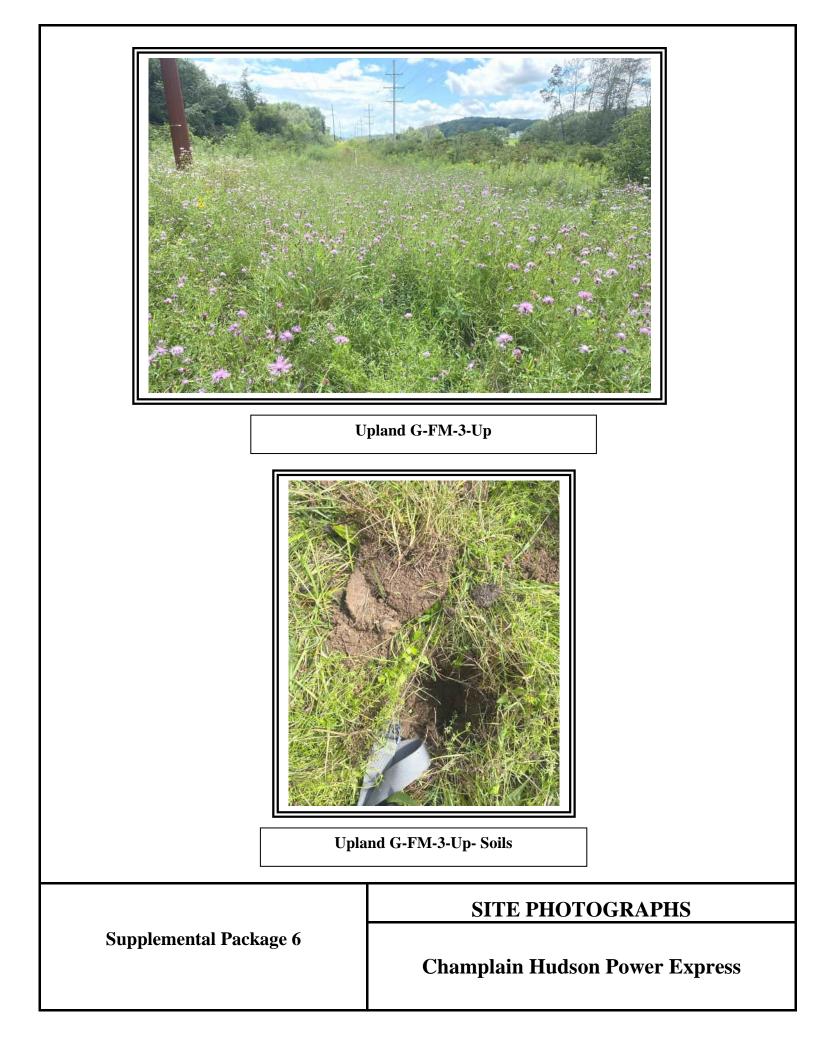
# **VEGETATION** – Use scientific names of plants.

Sampling Point: FM-3-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)				
3 4				Total Number of Dominant Species Across All Strata:2(B)				
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =				
1				FACW species x 2 =				
2				FAC species x 3 =				
3				FACU species x 4 =				
4				UPL species x 5 =				
5				Column Totals: (A)(B)				
6				Prevalence Index = B/A =				
7.				Hydrophytic Vegetation Indicators:				
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%				
1. Centaurea stoebe	60	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2. Melilotus albus	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
3. Solidago altissima			FACU	data in Remarks or on a separate sheet)				
4. Daucus carota			UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5 6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7				Definitions of Vegetation Strata:				
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in				
9				diameter at breast height (DBH), regardless of height.				
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
12				Herb – All herbaceous (non-woody) plants, regardless				
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
<u>Woody Vine Stratum</u> (Plot size: <u>15'</u> )				Woody vines – All woody vines greater than 3.28 ft in				
1				height.				
2				Hydrophytic				
3				Vegetation				
4				Present? Yes <u>No X</u>				
		=Total Cover		1				
Remarks: (Include photo numbers here or on a separ	rate sheet.)							

SOIL	
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Profile De	escription: (Describe	e to the d	epth needed to docu	iment th	e indicat	or or con	firm the absence of inc	licators.)		
Depth	Matrix		Redox	<pre>&lt; Feature</pre>	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks	
0-12	10YR 4/2	100					Loamy/Clayey			
	1011(4/2									_
							<u> </u>			
										—
							<u> </u>			
							<u> </u>			—
							<u> </u>			_
										—
<sup>1</sup> Type <sup>-</sup> C=	-Concentration, D=De	pletion R	M=Reduced Matrix C	S=Cove	ered or Co	ated San	d Grains <sup>2</sup> I ocation	: PL=Pore Lining	n M=Matrix	
	oil Indicators:	<u> </u>	,				Indicators for Pro			
-	sol (A1)		Polyvalue Below	/ Surface	e (S8) ( <b>LF</b>	RR.		0) ( <b>LRR K, L, M</b>		
	Epipedon (A2)		MLRA 149B)		( - / (	,		Redox (A16) ( <b>LR</b>		
	Histic (A3)		Thin Dark Surfa	ce (S9) (	LRR R. N	ILRA 149		eat or Peat (S3)	-	
	ogen Sulfide (A4)		High Chroma Sa					w Surface (S8) (		
	fied Layers (A5)		Loamy Mucky M					ace (S9) (LRR K		
	ted Below Dark Surfa	ce (A11)	Loamy Gleyed N	-		, ,		se Masses (F12)	-	
	Dark Surface (A12)	( )	Depleted Matrix		,			dplain Soils (F19		)
	y Mucky Mineral (S1)		Redox Dark Sur		)			(TA6) ( <b>MLRA 14</b>	, ( ,	<i>,</i>
	y Gleyed Matrix (S4)		Depleted Dark S	Surface (	, F7)		Red Parent Ma		,	
	y Redox (S5)		Redox Depressi	ons (F8)				Dark Surface (TF	12)	
	ed Matrix (S6)		Marl (F10) (LRR				Other (Explain			
	Surface (S7)		、 , 、				、 、	,		
	. ,									
<sup>3</sup> Indicators	s of hydrophytic veget	ation and	wetland hydrology mu	ist be pr	esent, unl	ess distu	rbed or problematic.			
Restrictiv	e Layer (if observed	):								
Type:										
Depth (i	nches):						Hydric Soil Present	? Yes	NoX	_
Remarks:		0 0 0 0				0 0 0 0				
This data	form is revised from N	lorthcentra	al and Northeast Regi	onal Sup	oplement	Version 2	.0 to reflect the NRCS Fi	eld Indicators of	Hydric Soils	
version 7.	0 March 2013 Errata.	(http://ww	w.nrcs.usda.gov/Inter	net/FSE		ENTS/nro	cs142p2_051293.docx)			



Project/Site:	Champlain Hudson Express			City/County:	Greene	Greene S			Novem	November 23, 2021	
Applicant/Owner:	CHA			State:	NY		:	Sampling Point:	DP-BK		
Investigator(s):	Tristen Petersor	Peterson S			Section, Township, Range: <u>Catskill</u>						
Landform (hillslope,	terrace, etc.):	Depression		Local relief (cond	cave, convex, n	one):	Concave		Slope	(%):	1
Subregion (LRR or	MLR <u>A):</u>	LRR R	Lat:	°N	Long:	°W			Datum:	NAD83	3
Soil Map Unit Name	e: <u>-</u>						NWI class	sification: Not N	Mapped		
Are climatic / hydrol	logic conditions o	n the site typical for this	time of year? Ye	es	<b>X</b> No	(If	f no, explain ir	n Remarks.)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "No	ormal Cir	rcumstances"	present?	Yes X	No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If need	led, expla	ain any answe	ers in Remarks.)			

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	X X	No	Is the Sampled Area within a Wetland?	Yes	. <u>)</u>	<u>x</u>	No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:		BK		
Remarks: (Explain alternative procedures here PEM Wetland located within a depression				esidential yard				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of o	one is required; check	all that apply)	Surface Soil Cracks (B6)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Inundation Visible on Aerial	Imagery (B7)	all that apply)         X       Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Root         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (Mathematics)         Other (Explain in Remarks)	X       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)         X         Geomorphic Position (D2)         Shallow Aquitard (D3)         Microtopographic Relief (D4)
Sparsely Vegetated Concav	ve Surface (B8)		FAC-Neutral Test (D5)
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes X No Yes X No Yes X No	Depth (inches): 1	Wetland Hydrology Present? Yes X No
Remarks:			

<b>VEGETATION</b> -	Use scientific	names of p	olants.
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Sampling Point: DP-BK

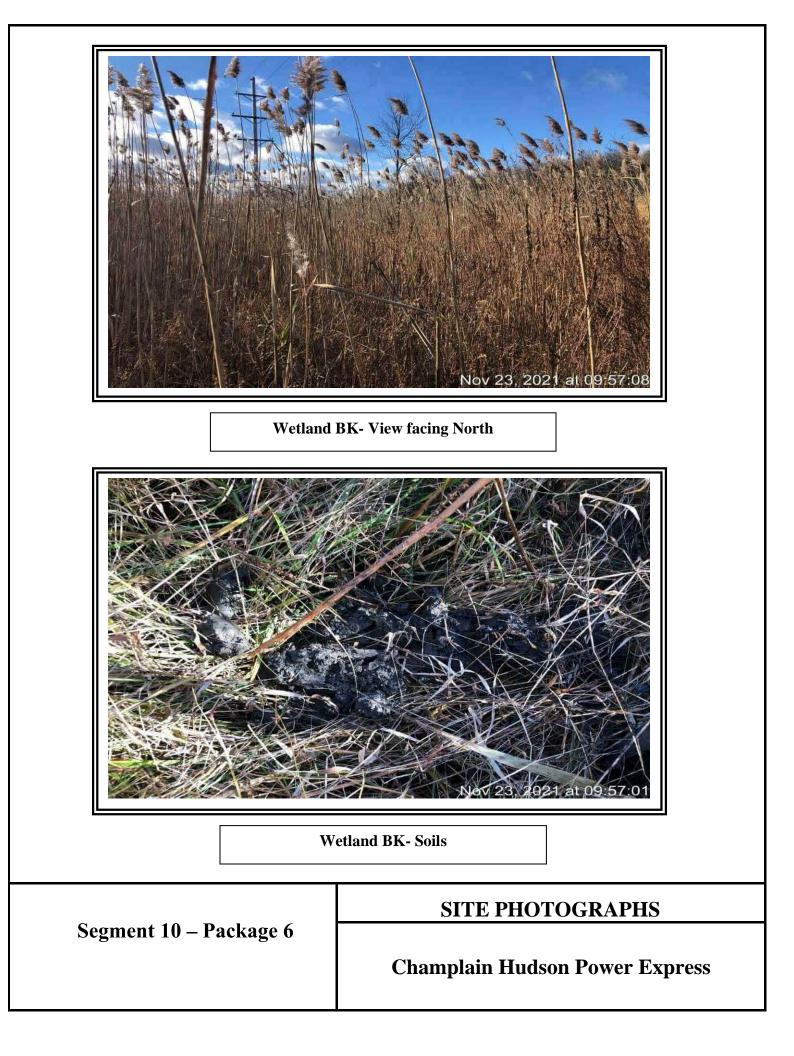
Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				
				Total Number of Dominant Species Across All Strata: 1 (B)
3				
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0 =	= Total Cover		OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>90</u> x 2 = <u>180</u>
1				FAC species $0$ x 3 = $0$
				FACU species $0$ x 4 = $0$
2				UPL species 0 x 5 = 0
3				Column Totals: <u>110</u> (A) <u>200</u> (B)
4				
5				Prevalence Index = B/A = 1.81
6				Hydrophytic Vegetation Indicators:
7				X 1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
Linds Obertainer (Dintaning 5.44)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 ft.)				data in Remarks or on a separate sheet)
1. Phragmites australis	90	Yes	FACW	
2. Lythrum salicaria	20	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter
6				at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
	110	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				Hydrophytic
2				Vegetation
3				Present? Yes <u>X</u> No
4.				
	0	= Total Cove	, r	
	0		1	
Remarks: (Include photo numbers here or on a separate sheet.)				

SUI

Sompling	Doint:	אם סח
Sampling	Point:	UP-DN

(inches)	Matrix			x Features	_ ,	0		
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
-10	10YR 2/1	95	7.5YR 5/6	5	С	М	Clay Loam	
0-20	10YR 2/1	90	7.5YR 5/6	10	С	М	Clay	
							·	
							· ·	
							· ·	
							·	
							·	
							· ·	
						_		
Гуре: C=Cor	centration, D=Depletion,	RM=Reduc	ced Matrix, MS=Maske	ed Sand Grai	ins.		<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
ydric Soil In								ematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Below		B) (LRR R,			0) (LRR K, L, MLRA 149B)
Histic Ep Black His	ipedon (A2)		MLRA 149B)			10B)	_	edox (A16) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surface Loamy Mucky M			490)		at or Peat (S3) ( <b>LRR K, L, R</b> ) 57) ( <b>LRR K, L, M</b> )
	Layers (A5)		Loamy Gleyed N					w Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matrix				Thin Dark Surfa	ace (S9) (LRR K, L)
Thick Da	rk Surface (A12)		X Redox Dark Sur	face (F6)			Iron-Manganes	e Masses (F12) ( <b>LRR K, L, R</b> )
-	lucky Mineral (S1)		Depleted Dark S				Piedmont Floor	Iplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depressi	ons (F8)				ΓΑ6) ( <b>MLRA 144A, 145, 149B</b> )
	edox (S5)						Red Parent Ma	
	Matrix (S6)	1400						ark Surface (TF12)
Dark Sur	face (S7) (LRR R, MLRA	1490)					Other (Explain i	n Remarks)
		dwatland	hydrology must be pre	esent, unless	disturbed o	r problemat	tic.	
ndicators of	hydrophytic vegetation an							
	hydrophytic vegetation an aver (if observed):							
estrictive La Type: <u>Nor</u>	ayer (if observed):							N
estrictive La	ayer (if observed):						Hydric Soil Present?	Yes X No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes X No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes X No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes X No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u>	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No
estrictive La Type: <u>Nor</u> Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes <u>X</u> No

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Project/Site:	Champlain Huds	on Express		City/County:	Greene		Sampling Da	ate: No	ovember 23	, 2021
Applicant/Owner:	CHA			State:	NY		Sampling Po	int: DF	P-BK-Uplan	d
Investigator(s):	Tristen Peterson			Section, Township	, Range:	Catskill				
Landform (hillslope,	terrace, etc.):	Plain		Local relief (conca	ve, convex, n	one):	Concave	S	lope (%):	1
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	°N	Long:	°W		D	atum: NAD	83
Soil Map Unit Name	: <u>-</u>						NWI classification:	Not Mappe	ed	
Are climatic / hydrolo	ogic conditions on	the site typical for th	his time of year? Ye	es <u>)</u>	<b>(</b> No	(If	no, explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "No	ormal Circ	cumstances" present?	Yes	X N	0
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If need	led, expla	in any answers in Rema	rks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No	X X	Is the Sampled Area within a Wetland?	Yes	No	X	
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures Upland Data Point for Wetland BK I			aintained	grass area				

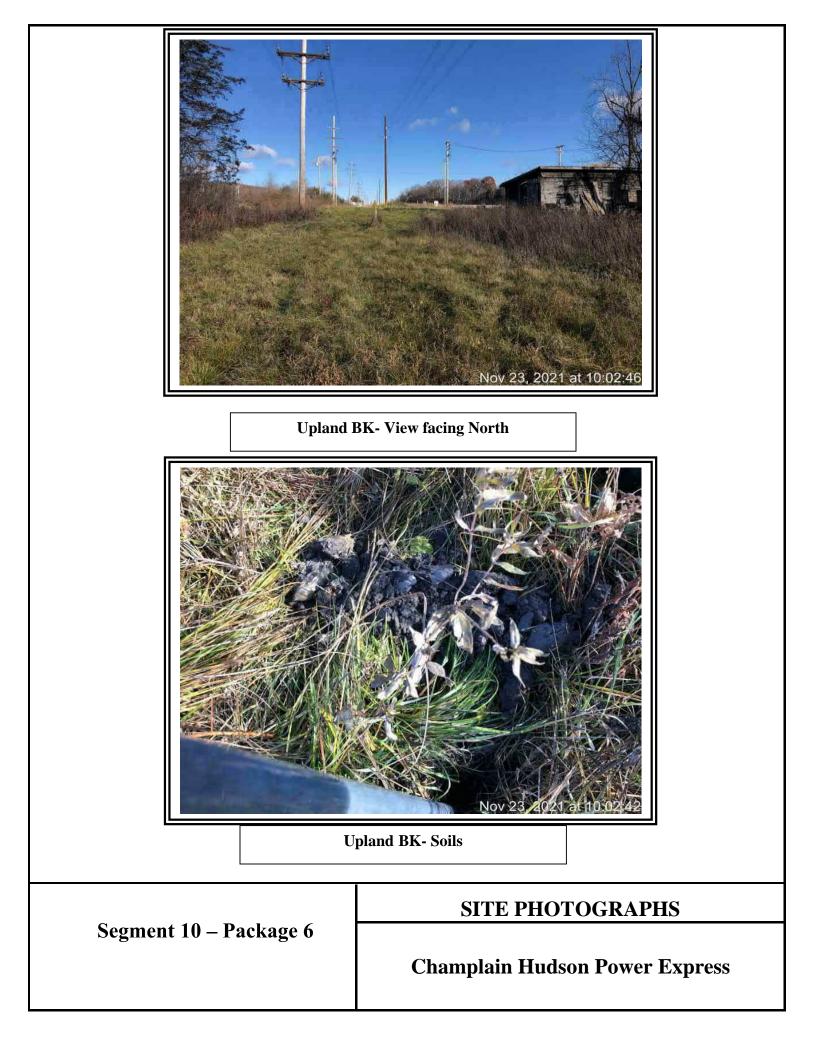
Wetland Hydrology Indicators:						Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	ne is required;	check	all that	apply)		Surface Soil Cracks (B6)
Surface Water (A1)			_	Water-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)			_	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)				Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)				Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)				Oxidized Rhizospheres on Living Roots	s (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)				Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)				Recent Iron Reduction in Tilled Soils (C	C6)	Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)						Shallow Aquitard (D3)
Inundation Visible on Aerial	magery (B7)			Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave	e Surface (B8)				FAC-Neutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes	No	Х	Depth (inches):		
Water Table Present?	Yes	No	Х	Depth (inches):	Wetland Hyd	rology Present? Yes <u>No X</u>
Water Table Present? Saturation Present?	Yes Yes			Depth (inches): Depth (inches):	Wetland Hyd	rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):		rology Present? Yes No <u>X</u>
Saturation Present? (includes capillary fringe)	Yes	No	Х			rology Present? Yes No <u>X</u>
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):		rology Present? Yes No <u>X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>

<b>VEGETATION</b> -	Use scientific n	names of plants.
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Sampling Point: DP-BK-Upland

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	0 (A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
		Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)					x 2 = <u>0</u>
1					x 3 = <u>15</u>
2					x 4 = <u>380</u>
3					x 5 = 0 (P)
4				Column Totals: <u>100</u>	(A) <u>395</u> (B)
5				Prevalence Index = B/A =	3.95
6.				Hydrophytic Vegetation Indica	itors:
7				1 - Rapid Test for Hydrophy	ytic Vegetation
				2 - Dominance Test is >509	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3. 4 - Morphological Adaptatio	
1. Lolium perenne	90	Yes	FACU	data in Remarks or on a	
2. Fragaria virginiana			FACU	Problematic Hydrophytic V	egetation <sup>1</sup> (Explain)
3. Setaria parviflora				<sup>1</sup> Indicators of hydric soil and we	
				be present, unless disturbed or p	
4 5				Definitions of Vegetation Strat	a.
				Tree – Woody plants 3 in. (7.6 c	
6				at breast height (DBH), regardle	
7 8.				Sapling/shrub – Woody plants	-
				and greater than or equal to 3.28	
9			·	Herb – All herbaceous (non-woo	ody) plants, regardless of
10				size, and woody plants less than	
11				Woody vines - All woody vines	greater than 3.28 ft in
12				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Hydrophytic Vegetation	
3				Present? Yes	<u>No X</u>
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sl	heet.)				
No hydrophytic vegetation found at data point					
1					

SOIL								Sampling Point: DP-BK-	Upland
Profile Desc	ription: (Describe to th	e depth nee	ded to document the	indicator or	r confirm tl	ne absence	e of indicators.)		
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 4/2	100		<u> </u>			Silty Clay Loam		
8-20	10YR 4/1	95	7.5YR 5/6	5	C	Μ	Clay		
	<u>.</u>								
				·					
<sup>1</sup> Type: C=Co	ncentration, D=Depletior	n, RM=Redu	ced Matrix, MS=Maske	ed Sand Grai	ns.		<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.	
Black Hi Hydroge Stratified Depleter Thick Da Sandy M Sandy G Sandy R Sandy R Dark Su		A 149B)	Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf Depleted Dark S Redox Depressio	ce (S9) ( <b>LRR</b> ineral (F1) ( <b>I</b> fatrix (F2) (F3) face (F6) urface (F6) urface (F7) ons (F8)	R, MLRA LRR K, L)		2 cm Mi Coast P 5 cm Mi Dark Su Polyvalu Thin Da Iron-Ma Piedmo Mesic S Red Pai Very Sh Other (E	or Problematic Hydric Soils <sup>3</sup> : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L, M) ue Below Surface (S8) (LRR K, L) rrk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (TF12) Explain in Remarks)	
	ayer (if observed):					•			
Type: <u>No</u>	ne								
Depth (in	ches):						Hydric Soil P	resent? Yes No <u>X</u>	_
Remarks: No hydric soils	present at data point								



Project/Site:	Champlain Hudson Express			City/County:	Greene		Sampling D	ate: N	ovember 2	3, 2021	
Applicant/Owner:	CHA			State:	NY		Sampling Po	oint: D	P-BI		
Investigator(s):	Tristen Peterson			Section, Townsh	ip, Range:	Catski	I				
Landform (hillslope,	terrace, etc.):	Depression		Local relief (conc	ave, convex	none):	Concave	\$	Slope (%):	2	
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	42.320795°N	Lon	g: -73.83	0998°W	[	Datum: NA	D83	
Soil Map Unit Name	: KrA- Kingsbu	ry and Rhinebeck sc	ils, 0 to 3 percent	slopes			NWI classification:	Not Mapp	ed		
Are climatic / hydrolo	ogic conditions on	the site typical for th	s time of year? Ye	es	X No	(11	no, explain in Remarks.)	)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "	Normal Ci	rcumstances" present?	Yes	Х	No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(lf ne	eded, expl	ain any answers in Rema	arks.)			

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

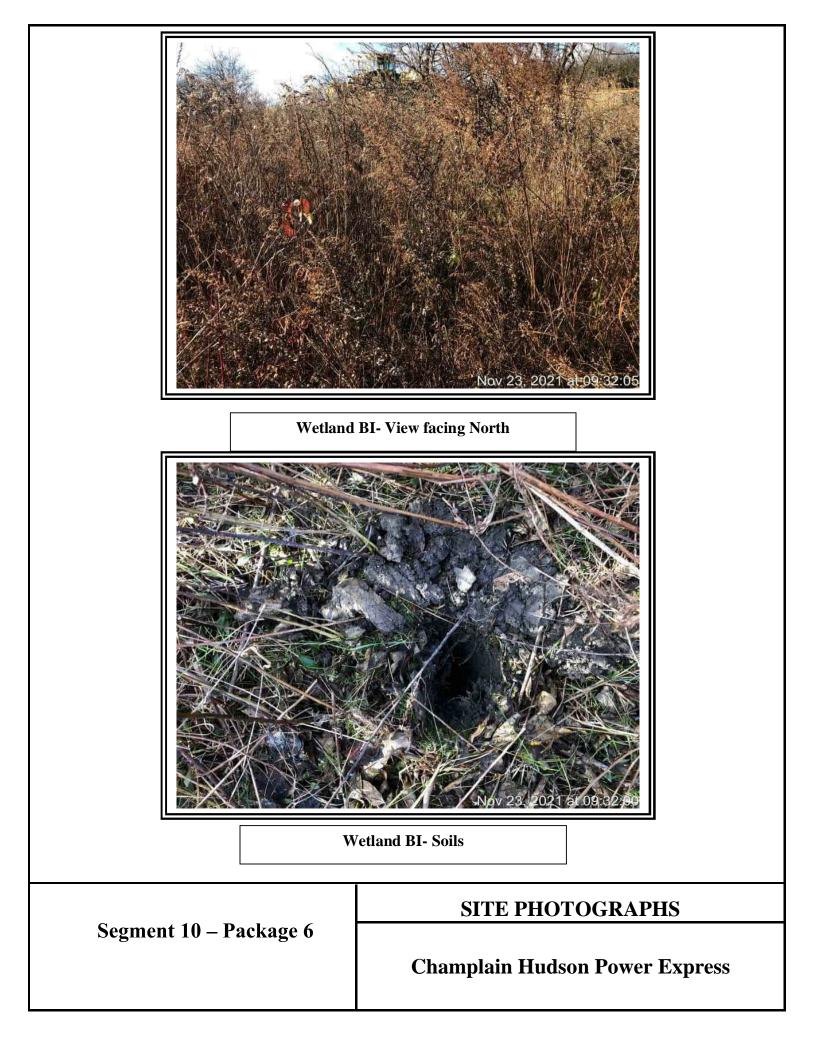
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	x x	No No		Is the Sampled Area within a Wetland?	Yes		x	No	
Wetland Hydrology Present?	Yes		No	Х	If yes, optional Wetland Site ID:		BI			
Remarks: (Explain alternative procedures he PSS Wetland located at bottom of of ra				tends/connect	ts to Stream BH.					

			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of on	ie is required; check	all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2)		Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)		Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roo	ts (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Iron (C4)	X Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (	C6) X Geomorphic Position (D2)
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial I	magery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave	e Surface (B8)		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	X Depth (inches):	
Water Table Present?	Yes No	X Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present?	Yes No	X Depth (inches):	
Oatulation resent:	100 110		
(includes capillary fringe)			
(includes capillary fringe)		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe)		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe)		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
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(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:
(includes capillary fringe) Describe Recorded Data (stream o		ell, aerial photos, previous inspections), if ava	ilable:

<b>VEGETATION –</b> Use scientific names of plan	nts.
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Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species           That Are OBL, FACW, or FAC:         5 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>5</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:           Total % Cover of:         Multiply by:
		= Total Cover		OBL species         40         x 1 = 40
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{55}{x 2} = \frac{110}{x}$
1. Frangula alnus	15	Yes	FAC	FAC species <u>30</u> x 3 = <u>90</u>
2. Cornus racemosa		Yes	FAC	FACU species <u>15</u> x 4 = <u>60</u>
3. Cornus alba			FACW	UPL species 0 x 5 = 0
4				Column Totals: <u>140</u> (A) <u>300</u> (B)
				Prevalence Index = B/A = 2.14
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
	50	= Total Cover		X 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1. Lythrum salicaria	40	Yes	OBL	
2. Symphyotrichum novae-angliae	25	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Cornus alba	10	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Solidago canadensis	15	No	FACU	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
	90	= Total Cover		-
Woody Vine Stratum (Plot size: 30 ft.)				
1.				
2				Hydrophytic
				Vegetation Present? Yes <u>X</u> No
3				
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)	)			

epth	iption: (Describe to the	e deptit ne					of mulcators.)	
eptn ches)	Matrix Color (moist)	%	Color (moist)	ox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	10YR 3/2	100					Clay Loam	
2	10YR 3/2	95	7.5YR 6/6	5	С	М	Clay Loam	
D	10YR 3/2	70	7.5YR 6/6	30	С	М	Clay	
		-					· ·	
			<u> </u>					
					·			
					·		·	
	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Mask	ed Sand Gra	ins.			re Lining, M=Matrix.
Iric Soil II Histosol	ndicators: (A1)		Polyvalue Belov	v Surface (St	B) (LRR R,			olematic Hydric Soils <sup>3</sup> : 10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)					Redox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)				1 <b>49B</b> )		eat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Mucky M		LRR K, L)			(S7) (LRR K, L, M)
-	l Layers (A5) I Below Dark Surface (A	11)	Loamy Gleyed N Depleted Matrix					ow Surface (S8) (LRR K, L) Face (S9) (LRR K, L)
	ark Surface (A12)	,	X Redox Dark Su					se Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1)		Depleted Dark S					dplain Soils (F19) ( <b>MLRA 149B</b> )
	leyed Matrix (S4)		Redox Depress					(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	edox (S5)						Red Parent Ma	aterial (F21)
Stripped	Matrix (S6)							Dark Surface (TF12)
Dark Su	rface (S7) ( <b>LRR R, MLR</b>	A 149B)					Other (Explain	in Remarks)
dicators of	hydrophytic vegetation a	and wetlan	d hvdroloav must be pre	esent. unless	disturbed o	r problema	tic.	
	ayer (if observed):			,		1		
Type: No			-					
Depth (ind	cnes):						Hydric Soil Present	?Yes <u>X</u> No
narks:								



Project/Site:	Champlain Hudson Express			City/County:	Greene		Sampling Date:	: November 23	, 2021
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-BI-Upland	ł
Investigator(s):	Tristen Peterson			Section, Township,	Range:	Catskill			
Landform (hillslope,	terrace, etc.):	Plain		Local relief (concav	/e, convex, no	one): <u>Co</u>	ncave	Slope (%):	1
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	42.320894°N	Long:	-73.830959°	W	Datum: NAD	83
Soil Map Unit Name	: KrA - Kingsbu	ry and Rhinebeck soils, (	0 to 3 percent	slopes		N	WI classification: Not	t Mapped	
Are climatic / hydrolo	ogic conditions on	the site typical for this tin	ne of year? Ye	es X	No	(If no, e	xplain in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significant	ly disturbed?	Are "No	rmal Circums	tances" present?	Yes X N	0
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If neede	ed, explain ar	y answers in Remarks.	i.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	x x	Is the Sampled Area within a Wetland?	Yes	 No _	x	
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures Upland Data Point for Wetland BI,			oad and resi	idential yard				

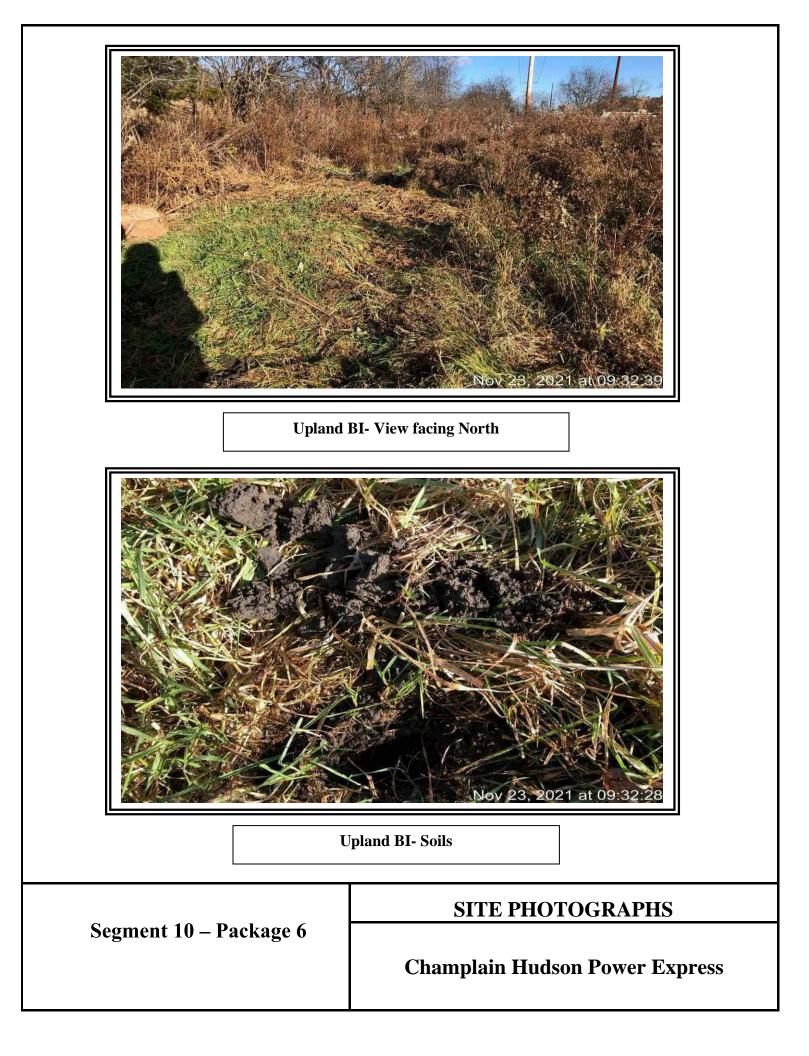
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on L	iving Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (	C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Til	ed Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectio	ns), if available:
Remarks:	
No wetland hydrology present at data point	

<b>VEGETATION</b> -	Use scientific n	names of plants.
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Sampling Point: DP-BI-Upland

Tree Stratum (Plot size: 30 ft. ) 1.	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC:	0	_(A)
2 3				Total Number of Dominant Species Across All Strata:	1	(B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:	0	_(A/B)
6 7				Prevalence Index worksheet: Total % Cover of:	Multiply by:	
	=	= Total Cover		OBL species 0	x 1 = 0	_
Sapling/Shrub Stratum (Plot size: 15 ft.)	_				x 2 = 0	_
1					x 3 = 0	
2					x 4 = <u>420</u>	_
				UPL species 0	x 5 = 0	
3				Column Totals: 105	(A) <u>420</u>	(B)
4 5				Prevalence Index = B/A =	= 4	
6				Hydrophytic Vegetation Indic 1 - Rapid Test for Hydroph		
7				2 - Dominance Test is >50		
	0	= Total Cover		3 - Prevalence Index is ≤3		
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptati		J
1. Lolium perenne	60	Yes	FACU	data in Remarks or on	a separate sheet)	
2. Dactylis glomerata	15	No	FACU	Problematic Hydrophytic V	egetation <sup>1</sup> (Explain)	
3. Cirsium arvense	10	No	FACU	<sup>1</sup> Indicators of hydric soil and we	etland hydrology must	
4. Solidago canadensis	15	No	FACU	be present, unless disturbed or	problematic.	
5. Taraxacum officinale	5	No	FACU	Definitions of Vegetation Stra	ita:	
6				Tree – Woody plants 3 in. (7.6	cm) or more in diameter	
7				at breast height (DBH), regardle	ess of height.	
8				Sapling/shrub - Woody plants	less than 3 in. DBH	
9				and greater than or equal to 3.2	.8 ft (1 m) tall.	
10				Herb – All herbaceous (non-wo size, and woody plants less tha		of
11				Woody vines – All woody vines		
12				height.	greater than 5.20 it in	
	105	= Total Cover				
Woody Vine Stratum (Plot size: 30 ft.)						
1						
2				Hydrophytic		
2				Vegetation	··· <b>V</b>	
3				Present? Yes	<u> </u>	
4						
Remarks: (Include photo numbers here or on a separate she	0	= Total Cove	r			
No hydrophytic vegetation found at data point						

SOIL								Sampling Point: DP-BI-Upland
Profile Descri	ption: (Describe to the	depth need	ed to document the	indicator or	r confirm th	ne absence	e of indicators.)	
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20	10YR 3/3	100			с	м	Silty Clay Loam	
		·						
·								
<sup>1</sup> Type: C=Con	centration, D=Depletion	, RM=Reduc	ed Matrix, MS=Maske	ed Sand Grai	ns.		<sup>2</sup> Location:	: PL=Pore Lining, M=Matrix.
Hydric Soil In								for Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Below	/ Surface (S8	) (LRR R,			luck (A10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		MLRA 149B)					Prairie Redox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Surface	ce (S9) ( <b>LRR</b>	R, MLRA	149B)	5 cm N	lucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Mucky M	lineral (F1) (L	RR K, L)		Dark S	Surface (S7) (LRR K, L, M)
Stratified	Layers (A5)		Loamy Gleyed N	Aatrix (F2)			Polyva	lue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	11)	Depleted Matrix	(F3)			Thin D	ark Surface (S9) (LRR K, L)
Thick Dai	rk Surface (A12)		Redox Dark Sur	face (F6)			Iron-M	anganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Depleted Dark S	Surface (F7)			Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix (S4)		Redox Depressi	ons (F8)			Mesic	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Re	edox (S5)						Red Pa	arent Material (F21)
Stripped	Matrix (S6)						Very S	hallow Dark Surface (TF12)
Dark Surf	face (S7) (LRR R, MLRA	A 149B)					Other (	(Explain in Remarks)
<sup>3</sup> Indicators of I	hydrophytic vegetation a	nd wetland h	ydrology must be pre	esent, unless	disturbed c	or problema	atic.	
Restrictive La	ayer (if observed):							
Type: <u>Non</u>	e							
Depth (incl	hes):						Hydric Soil F	Present? Yes No X
Remarks:								
No hydric soils p	resent at data point							



Project/Site: Champlain Huds	on Express	City/Coun	ty: Greene	Sampling Date:	November 29, 2021
Applicant/Owner: CHA	i	State:	NY	Sampling Point:	DP-BM
Investigator(s): Tristen Peterson		Section To	ownship, Range: Catsk	cill	
Landform (hillslope, terrace, etc.):	Depression		(concave, convex, none):	Concave	Slope (%):1
Subregion (LRR or MLRA):	LRR R	Lat: 42.304923	°N Long: -73.8	36101°W	Datum: NAD83
Soil Map Unit Name: KrA- Kingsb	ury and Rhinebeck soils, 0	to 3 percent slopes		NWI classification: Not N	Mapped
Are climatic / hydrologic conditions on	the site typical for this tim	e of year? Yes	<b>X</b> No (	(If no, explain in Remarks.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbed	? Are "Normal C	Circumstances" present?	Yes X No
Are Vegetation , Soil	, or Hydrology X	naturally problematic?	(If needed, exp	plain any answers in Remarks.)	
· <u> </u>				•	
SUMMARY OF FIND	NGS – Attach site r	map showing sam	pling point locations	s, transects, important	features, etc.
	× <b>×</b>				
Hydrophytic Vegetation Present?	Yes X Yes X	No	Is the Sampled Area within a Wetland?	Yes X No	
Hydric Soil Present?	Yes X Yes X	_ No	If yes, optional Wetland Sit	te ID: BM	
Wetland Hydrology Present? Remarks: (Explain alternative proced		No	il yes, optional wetland Sil		
Large PSS wetland located with			ith scrub shrub vegetatio	n	
-			-		
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicators (minir	num of two required)
Primary Indicators (minimum of one	is required; check all that	apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	·	Water-Stained Leaves (E	39)	X Drainage Patterns (B10)	
X High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)		Dry-Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odor (	C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres of	on Living Roots (C3)	Saturation Visible on Aeri	al Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Irc	on (C4)	Stunted or Stressed Plant	ts (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction ir	n Tilled Soils (C6)	X Geomorphic Position (D2	)
Iron Deposits (B5)		Thin Muck Surface (C7)		Shallow Aquitard (D3)	,
Inundation Visible on Aerial Im		Other (Explain in Remar	ks)	Microtopographic Relief (	D4)
Sparsely Vegetated Concave S	• • • • • • • • • • • • • • • • • • •		-/	FAC-Neutral Test (D5)	,
Field Observations:					
	Yes No X	Depth (inches):			
	Yes X No		Wetland	Hydrology Present? Yes	X No
Saturation Present?	Yes No X	Dopth (inchos):	Totland		
(includes capillary fringe)		Deptil (Inches).			
Describe Recorded Data (stream ga	auge, monitoring well, aeri;	al photos, previous inspe	ctions), if available:		
Remarks:					

<b>VEGETATION</b> – Use scientific name	es of plants.
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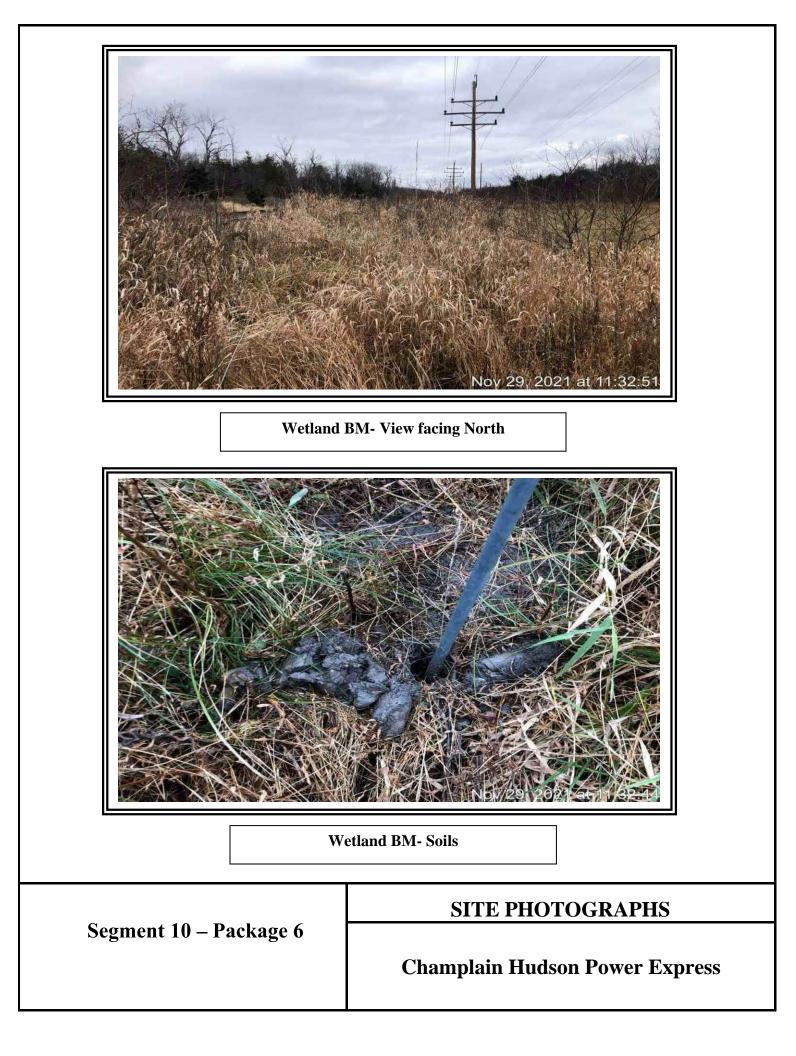
Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:	
1				Number of Dominant Species	• )
·				That Are OBL, FACW, or FAC:4 (/	A)
2				Total Number of Dominant	_,
3				Species Across All Strata:4(I	В)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:(/	A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
-	0 =	= Total Cover		OBL species <u>15</u> x 1 = <u>15</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $105$ x 2 = $210$	
1. Cornus racemosa	20	Yes	FAC	FAC species <u>45</u> x 3 = <u>135</u>	
2. Cornus amomum	15		FACW	FACU species <u>0</u> x 4 = <u>0</u>	
				UPL species <u>0</u> x 5 = <u>0</u>	-
3. Rhamnus cathartica	25	Yes	FAC	Column Totals: <u>165</u> (A) <u>360</u>	(B)
4					
5				Prevalence Index = B/A = 2.18	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
		Total Cover		$X_{1}$ 2 - Dominance Test is >50% X 3 - Prevalence Index is $\leq 3.0^{1}$	
– Herb Stratum (Plot size: 5 ft.)	60 :	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting	
	70	Vaa		data in Remarks or on a separate sheet)	
		Yes	FACW	Desklamatic Underskutic Manafaticu 1 (Europic)	
2. Lythrum salicaria	15	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3. Symphyotrichum novae-angliae	20	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
4				be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in. DBH	
		·		and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardless of	
10		·		size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
_	105	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1.					
				Hydrophytic	
2				Vegetation	
3				Present? Yes X No	
4					
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					

L

soli

Sampling	Point <sup>.</sup>	DP-BM
Sampling	i onit.	

	ription: (Describe to the	e depth ne			r confirm th	ne absence	e of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
								Komano	
0-12	2.5Y 4/1	90	7.5YR 5/6	10	<u> </u>	M	Clay Loam		
12-20	2.5Y 4/1	70	7.5YR 5/6	30	С	М	Clay		
							·		<u> </u>
						_			
		·							
		·					- <u> </u>		
							·		
						_			
		·	·				· ·		
							· ·		
<sup>1</sup> Type: C=Co	ncentration, D=Depletion	, RM=Redu	uced Matrix, MS=Mask	ed Sand Grai	ns.		<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.	
Hydric Soil I								lematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		B) (LRR R,			0) ( <b>LRR K, L, MLRA 14</b>	
	pipedon (A2)		MLRA 149B)					edox (A16) (LRR K, L,	
	istic (A3) en Sulfide (A4)		Thin Dark Surfa			149B)		at or Peat (S3) ( <b>LRR K</b> S7) ( <b>LRR K, L, M</b> )	., L, R)
	d Layers (A5)		Loamy Gleyed N		_IXIX IX, L)			w Surface (S8) (LRR K,	, L)
	d Below Dark Surface (A	11)	Depleted Matrix					ace (S9) (LRR K, L)	. ,
	ark Surface (A12)		X Redox Dark Sur					e Masses (F12) ( <b>LRR K</b>	
	Aucky Mineral (S1)		Depleted Dark S					dplain Soils (F19) ( <b>MLR</b>	-
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)			Red Parent Ma	TA6) ( <b>MLRA 144A, 145</b> terial (E21)	o, 149B)
	Matrix (S6)							ark Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLR	A 149B)					Other (Explain	n Remarks)	
	hydrophytic vegetation a	and wetland	hydrology must be pre	esent, unless	disturbed c	r problemat	tic.		
	ayer (if observed):								
Type: <u>No</u> Depth (ind			-				Hydric Soil Present?	Yes X	No
	ches).						Hydric Son Fresent?		
Remarks:									



Project/Site:	Champlain Hudso	on Express		City/County:	Greene		Sampling Da	ate: No	ovember 29	, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Poi	int: DF	P-BM-Uplan	d
Investigator(s):	Tristen Peterson			Section, Township,	, Range:	Catskill				
Landform (hillslope,	terrace, etc.):	Plain		Local relief (concav	ve, convex, no	one):	Convex	S	lope (%):	1
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	42.304813°N	Long:	-73.8360	069°W	D	atum: NAD	33
Soil Map Unit Name	: KrA - Kingsbu	ry and Rhinebeck so	oils, 0 to 3 percent	slopes			NWI classification:	Not Mappe	ed	
Are climatic / hydrold	ogic conditions on	the site typical for th	is time of year? Ye	es X	K No	(lf n	io, explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "No	rmal Circi	umstances" present?	Yes	<b>X</b> N	0
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If neede	ed, explai	n any answers in Remar	rks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	x x	Is the Sampled Area within a Wetland?	Yes	No	x	
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures Upland Data point for Wetland BM I			nainted a	ccess path adjacent to railroad				

Wetland Hydrology Indicators:						Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	e is required;	check all	that	apply)		Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)						Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)						Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)						Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)						Crayfish Burrows (C8)
Sediment Deposits (B2)		_		Oxidized Rhizospheres on Living Roots	s (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		_		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		-		Recent Iron Reduction in Tilled Soils (C	C6)	Geomorphic Position (D2)
Iron Deposits (B5)		_		Thin Muck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)						Microtopographic Relief (D4)
Sparsely Vegetated Concave	e Surface (B8)					FAC-Neutral Test (D5)
Field Observations:						
Surface Water Present?	Yes	No	X	Depth (inches):		
Water Table Present?	/ater Table Present? Yes No X Depth (inches):			Wetland	Hydrology Present? Yes No X	
Saturation Present? Yes No X Depth (inches):						
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitor	ring well,	aeria	al photos, previous inspections), if avai	lable:	
Remarks: No wetland hydrology present	at data point	t				

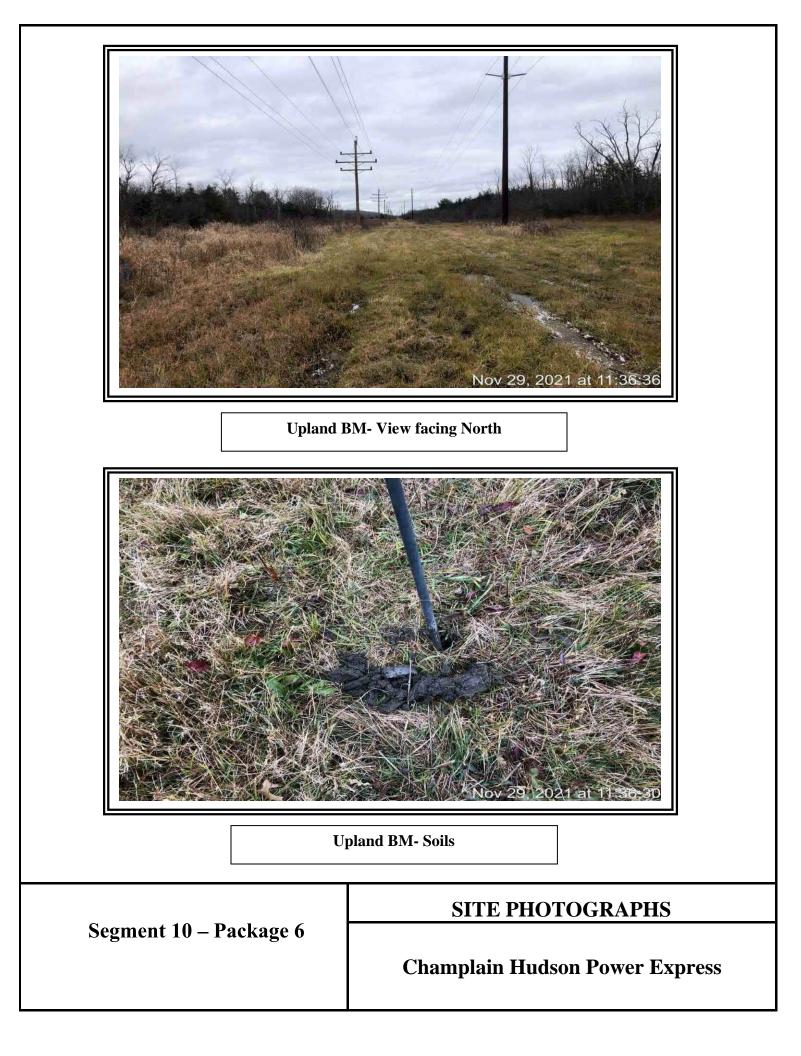
<b>VEGETATION</b> -	Use scientific n	names of plants.
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Sampling Point: DP-BM-Upland

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2					、 /
3				Total Number of Dominant Species Across All Strata:	1 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	<u> </u>
6					
				Prevalence Index worksheet: Total % Cover of:	Multiply by:
7		= Total Cover			$\frac{\text{Multiply by:}}{x \ 1 = \ 0}$
Sapling/Shrub Stratum (Plot size: 15 ft.)					x = 0
					x = 0
1					x 4 = 400
2				UPL species 0	x 5 = 0
3				Column Totals: 100	(A) <u>400</u> (B)
4				Davidance Index D/A 4	
5				Prevalence Index = B/A = 4	
6				Hydrophytic Vegetation Indicate	
7				1 - Rapid Test for Hydrophyti 2 - Dominance Test is >50%	c vegetation
	0	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	
1. Lolium perenne	90	Yes	FACU	data in Remarks or on a s	separate sheet)
2. Taraxacum officinale	10	No	FACU	Problematic Hydrophytic Veg	jetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetla	and hydrology must
4				be present, unless disturbed or pre-	oblematic.
5				Definitions of Vegetation Strata	
6				Tree – Woody plants 3 in. (7.6 cm	
7				at breast height (DBH), regardless	·
0				Sapling/shrub – Woody plants le	ss than 3 in. DBH
o				and greater than or equal to 3.28 f	
9				Herb – All herbaceous (non-wood	y) plants, regardless of
10				size, and woody plants less than 3	3.28 ft tall.
11				Woody vines - All woody vines gr	reater than 3.28 ft in
12				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes	<u>No X</u>
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					
No hydrophytic vegetation found at data point					

L

20 10YR 4/1 100 Silty Clay Loam	(inches)       Color (moist)       %       Type1       L         -20       10YR 4/1       100	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       So m Muck Pater Pear (S3) (LRR K, L, R)         Hatic Epipedon (A2)       MuRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)       Dark Surface (S1) (LRR K, L, R)         Very Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S1) (LRR K, L, R)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L, R)         Sandy Redox (S1)       Depleted Dark Surface (F7)       Poledmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Dark Surface (F7)       Poledmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Sopodic (TA6) (MLRA 1445, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Red Parent Material (F21)         Starface (S7) (LRR R, MLRA 1449B)       Very Shaltow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shaltow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shaltow Dark Surface (TF12)	Ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.         ydric Soil Indicators:         Histosol (A1)         Histosol (A1)         Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         Depleted Below Dark Surface (A11)         Depleted Below Dark Surface (A12)         Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)         Sandy Gleyed Matrix (S4)	2Location: PL=Pore Lining, M=Matrix.         Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       So and Muck (10) (LRR K, L, MLRA 149B)         Hatic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       So and Muck (10) (LRR K, L, MLRA 149B)         Straffied Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S9) (LRR K, L, R)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Poledmont Floodplain Soils (F19) (MLRA 149B)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Mesic Sood(C TA6) (MLRA 144B)         Sandy Redox (S5)       Back Surface (F7)       Poledmont Floodplain Soils (F19) (MLRA 144B)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Red Parent Material (F21)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Red Parent Material (F21)         Sandy Gleyed Matrix (S5)       User Shaltow Dark Surface (TF12)       Other (Explain in Remarks)         Addcators of hydrophytic vegetat	Ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.         ydric Soil Indicators:         Histosol (A1)         Histosol (A1)         Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         Depleted Below Dark Surface (A11)         Depleted Below Dark Surface (A12)         Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)         Sandy Gleyed Matrix (S4)	2Location: PL=Pore Lining, M=Matrix.         Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Polyvalue Below Dark Surface (A11)       Depleted Matrix (F3)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 1449B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)	rdric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 1449B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Polycel Not X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	rdric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Ardicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Potyre Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Thin Remarks       No X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 1449B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Problematic.       No X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	rdric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 1449B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Problematic.       No X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	rdric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.         Destrictive Layer (if observed):       Type: None         Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.         Destrictive Layer (if observed):       Type: None         Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.         Destrictive Layer (if observed):       Type: None         Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Weise Spodic (TA6) (MLRA 144A, 145, 149B)         Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Type: None       No X         Depth (inches):       Hydric Soil Present? Yes       No X	rdric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.         Destrictive Layer (if observed):       Type: None         Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Polycalue Beart? Yes       No X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       S cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Suffide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Strictive Layer (if observed):       Type: None       Very Shallow Dark Surface (TF12)         Depth (inches):       Hydric Soil Present? Yes       No X	rdric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Polycalue Beart? Yes       No X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
dric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 1449B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Dark Surface (If Observed):       Type: None       No X         Type: None       Depth (inches):       No X	rdric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       No X         mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Hydric Soil Present? Yes       No X         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X <td>ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)</td> <td>Indicators for Problematic Hydric Soils<sup>3</sup>:         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</td>	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histos (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histo Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depresent, unless disturbed or problematic.         Destrictive Layer (if observed):       Type: None         Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Solis (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Wery Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Problematic.         estrictive Layer (if observed):       Type: None       No X         Depth (inches):       Hydric Soil Present? Yes       No X	ydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Indicators for Problematic Hydric Soils <sup>3</sup> :         R R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Type: None       Depth (inches):       Hydric Soil Present? Yes       No X	Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	R R,         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)
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L, R)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Mexic Soil Present? Yes       No X         Depth (inches):       Hydric Soil Present? Yes       No X	Histic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149Hydrogen Sulfide (A4)Loamy Mucky Mineral (F1) (LRR K, L)Stratified Layers (A5)Loamy Gleyed Matrix (F2)Depleted Below Dark Surface (A11)Depleted Matrix (F3)Thick Dark Surface (A12)Redox Dark Surface (F6)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Sandy Gleyed Matrix (S4)Redox Depressions (F8)	Coast Prairie Redox (A16) (LRR K, L, R)         LRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       No X         Depth (inches):       Hydric Soil Present? Yes       No X	Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	LRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Hydric Soil Present? Yes       No X         Depth (inches):       Hydric Soil Present? Yes       No X       X	Hydrogen Sulfide (A4)Loamy Mucky Mineral (F1) (LRR K, L)Stratified Layers (A5)Loamy Gleyed Matrix (F2)Depleted Below Dark Surface (A11)Depleted Matrix (F3)Thick Dark Surface (A12)Redox Dark Surface (F6)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Sandy Gleyed Matrix (S4)Redox Depressions (F8)	
Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Polyvalue Soil Present? Yes       No X         Depth (inches):       Hydric Soil Present? Yes       No X	Stratified Layers (A5)Loamy Gleyed Matrix (F2)Depleted Below Dark Surface (A11)Depleted Matrix (F3)Thick Dark Surface (A12)Redox Dark Surface (F6)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Sandy Gleyed Matrix (S4)Redox Depressions (F8)	$\mathbf{L}$ Dark Sufface (S7) (LKK K, L, M)
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Type:       No       X         Depth (inches):       Hydric Soil Present? Yes       No	Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	Polyvaluo Bolow Surface (SR) (I PP K I)
Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         estrictive Layer (if observed):       Type: None         Depth (inches):       Hydric Soil Present? Yes       No X	Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         estrictive Layer (if observed):       Type: None       No X         Depth (inches):       Hydric Soil Present? Yes       No X	Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)	
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         estrictive Layer (if observed):       Type: None       No         Depth (inches):       Hydric Soil Present? Yes       No	Sandy Gleyed Matrix (S4) Redox Depressions (F8)	
Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         estrictive Layer (if observed):       Type: None       No         Depth (inches):       Hydric Soil Present? Yes       No		
Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Image: Context (if observed):         Type:       None         Depth (inches):       Hydric Soil Present? Yes       No X		
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.       Image: Control of the c		
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No X		
Experimentative Layer (if observed):       Type: None       Depth (inches):         Hydric Soil Present? Yes   No X		
Estrictive Layer (if observed):       Type: None       Depth (inches):         Hydric Soil Present? Yes   No X	ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or pr	bed or problematic.
Type:         None           Depth (inches):         Hydric Soil Present? Yes         No X		
Depth (inches):     Hydric Soil Present? Yes     No X		
		Hydric Soil Present? Yes No >
	Dopur (monoo).	



Project/Site:	Champlain Hudso	on Express		City/County:	Greer	ne		Sampling D	ate: 1	Vovember	23, 2	021
Applicant/Owner:	CHA			State:	NY			Sampling Po	oint: [	DP-BF		
Investigator(s):	Tristen Peterson			Section, Townsh	nip, Rang	je: <u>(</u>	Catskill					
Landform (hillslope,	terrace, etc.):	Depression		Local relief (con	cave, cor	nvex, nor	ie):	Concave		Slope (%	):	1
Subregion (LRR or M	MLR <u>A):</u>	LRR R	Lat:	42.302552°N		Long: -	73.8368	364°W		Datum: N/	AD83	
Soil Map Unit Name	: KrA - Kingsbu	ry and Rhinebeck s	soils, 0 to 3 percent	slopes				NWI classification:	Not Map	ped		
Are climatic / hydrolo	ogic conditions on	the site typical for t	his time of year? Ye	es	XN	۰o	(If r	no, explain in Remarks.)	)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	,	Are "Norr	nal Circ	umstances" present?	Yes	Х	No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(	(If needeo	d, explai	n any answers in Rema	arks.)			

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	X X	No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID: BF
Remarks: (Explain alternative procedures here PSS Wetland located within a depression				itch AG located west of Wetland

Wetland Hydrology Indicators:				-	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one i	is required; c	heck all tha	it apply)		Surface Soil Cracks (B6)
Surface Water (A1)			Water-Stained Leaves (B9)	_	X Drainage Patterns (B10)
High Water Table (A2)			Aquatic Fauna (B13)	_	Moss Trim Lines (B16)
X Saturation (A3)			Marl Deposits (B15)	_	Dry-Season Water Table (C2)
Water Marks (B1)			_	Crayfish Burrows (C8)	
Sediment Deposits (B2)		_	s (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)			_	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)			C6)	X Geomorphic Position (D2)	
Iron Deposits (B5)			_	Shallow Aquitard (D3)	
Inundation Visible on Aerial Ima	agery (B7)		_	Microtopographic Relief (D4)	
Sparsely Vegetated Concave S	urface (B8)			_	FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No X	Depth (inches):		
Vater Table Present? Yes X No Depth (inches): 18				Wetland H	ydrology Present? Yes X No
Saturation Present? Yes X No Depth (inches): 8					
(includes capillary fringe)					
Describe Recorded Data (stream gau	uge, monitori	ng well, ae	rial photos, previous inspections), if avai	ilable:	
Remarks:					
Remarks.					

<b>VEGETATION</b> – Use scientific name	es of plants.
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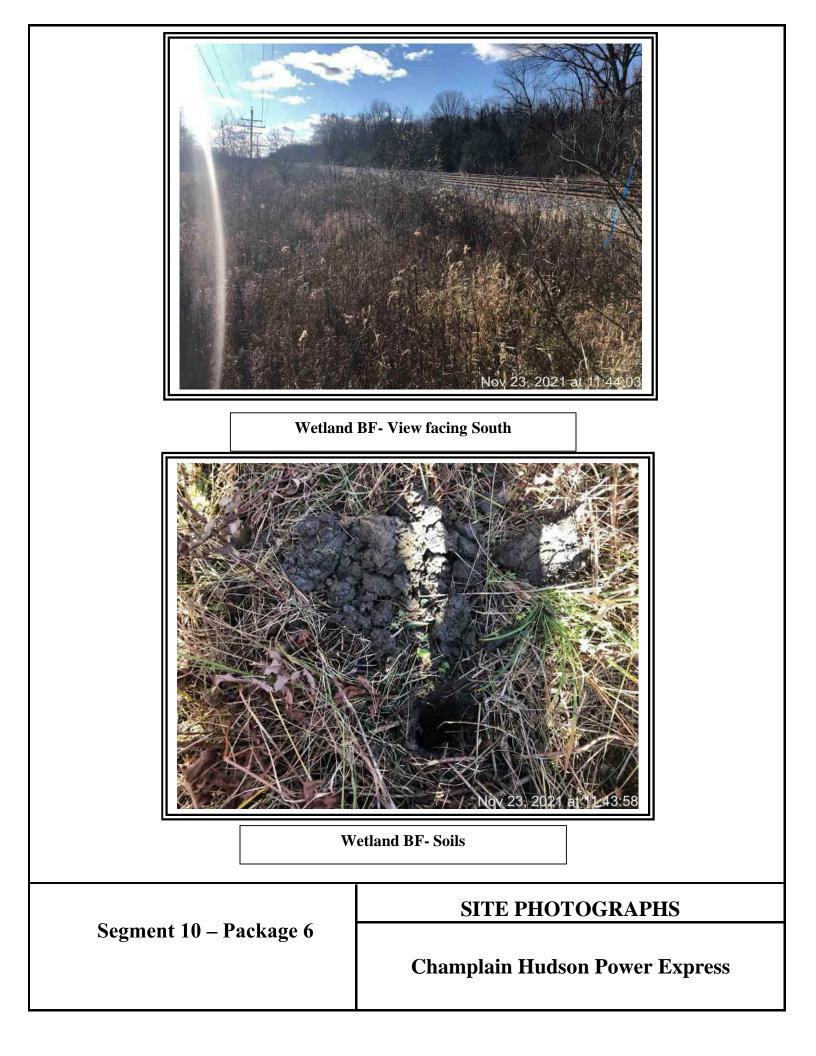
Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:           Number of Dominant Species           That Are OBL, FACW, or FAC:         4           (A)
2 3				Total Number of Dominant Species Across All Strata: 6 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.6</u> (A/B)
6				Prevalence Index worksheet: Total % Cover of: Multiply by:
7		Total Cover		OBL species     0 $x = 0$
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 70 x 2 = 140
1 Cornus alba	25	Yes	FACW	FAC species <u>30</u> x 3 = <u>90</u>
2. Rhamnus cathartica	15	Yes	FAC	FACU species <u>15</u> x 4 = <u>60</u>
3. Cornus racemosa		Yes	FAC	UPL species $0$ x 5 = $0$
4				Column Totals: <u>115</u> (A) <u>290</u> (B)
5				Prevalence Index = B/A = 2.52
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				$\underline{X}$ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	55	= Total Cover		X 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	_			data in Remarks or on a separate sheet)
1. Phalaris arundinacea			FACW	
2. <u>Symphyotrichum novae-angliae</u>	25	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Solidago canadensis			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	60	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)	_			
1				Hydrophytic
2				Vegetation
3				Present? Yes X No
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate shee	t.)			

SOIL

Sampling	Point:	DD-RE

SOIL Profile Descri	ption: (Describe to the	depth nee	ded to document the in	ndicator or	· confirm th	ne absence	of indicators.)	Sampling Point: DP-BF
Depth	Matrix			Features	•••••			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/2	100					Clay	
6-13	10YR 2/2	95	7.5YR 5/6	5	С	М	Clay	
13-20	10YR 3/2	55	10YR 5/6	45	С	М	Clay	
<sup>1</sup> Type: C=Con Hydric Soil In	centration, D=Depletion,			Sand Grai			2Location:	PL=Pore Lining, M=Matrix.
Histosol (			Polyvalue Below S	Surface (S8	3) (LRR R,			uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		MLRA 149B)	(00) (1 88	-			Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3) I Sulfide (A4)		Thin Dark Surface			149B)		ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) urface (S7) ( <b>LRR K, L, M</b> )
	Layers (A5)		Loamy Gleyed Ma		_IXIX IX, L)			ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A1	1)	Depleted Matrix (F					urk Surface (S9) (LRR K, L)
Thick Dark Surface (A12) X Redox Dark Surface (F6)							Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)								nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Gleyed Matrix (S4) Redox Depressions (F8)								Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Redox (S5) Stripped Matrix (S6)								rent Material (F21) allow Dark Surface (TF12)
	ace (S7) (LRR R, MLRA	149B)						Explain in Remarks)
<sup>3</sup> Indicators of I	hydrophytic vegetation a	nd wetland	hydrology must be prese	ent, unless	disturbed c	r problemat	ic.	
	yer (if observed):							
Type: <u>Non</u> Depth (incl							Hydric Soil P	resent? Yes X No
Remarks:	165).						Hyunc Son P	

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Project/Site:	Champlain Hudso	on Express		City/County:	Greene		Sampling Da	ate: N	ovember 2	23, 20	21
Applicant/Owner:	CHA			State:	NY		Sampling Poi	nt: D	P-BF-Upla	and	
Investigator(s):	Tristen Peterson			Section, Township,	Range:	Catskill					
Landform (hillslope,	terrace, etc.):	Terrace		Local relief (conca	ve, convex, no	one):	Convex	5	Slope (%):		1
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	42.302547°N	Long:	-73.8368	806°W	0	atum: NA	D83	
Soil Map Unit Name	: KrA- Kingsbu	ry and Rhinebeck soi	ils, 0 to 3 percent	slopes			NWI classification:	Not Mapp	ed		
Are climatic / hydrolo	ogic conditions on	the site typical for this	s time of year? Ye	es X	No	(If n	o, explain in Remarks.)				
Are Vegetation	, Soil	, or Hydrology	significant	y disturbed?	Are "No	rmal Circ	umstances" present?	Yes	Х	No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If neede	ed, explai	n any answers in Remar	rks.)			

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	x x	Is the Sampled Area within a Wetland?	Yes _	No	х	
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:	_			
Remarks: (Explain alternative procedures Upland Data Point for Wetland BF, I			ss road					

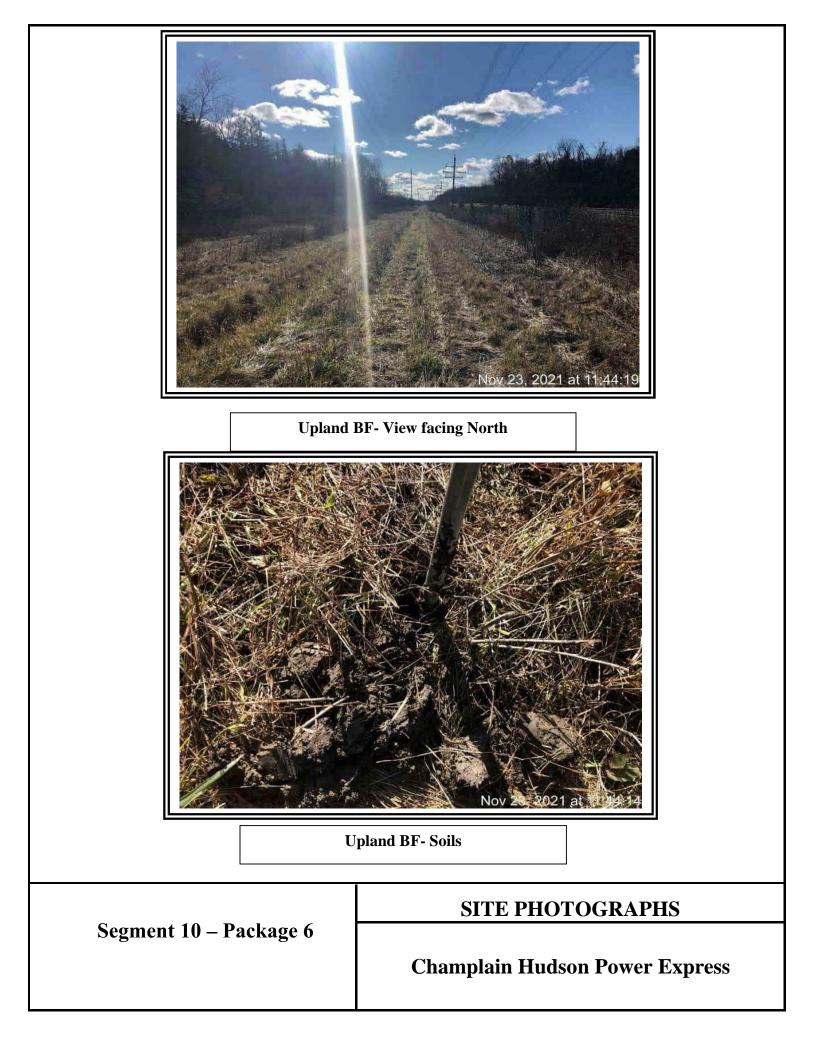
				Sec	condary Indicators (minimum of two required)		
Primary Indicators (minimum of or	ne is required;	check all that	t apply)	Si	urface Soil Cracks (B6)		
Surface Water (A1)			Di	rainage Patterns (B10)			
High Water Table (A2)			M	oss Trim Lines (B16)			
Saturation (A3)		_	Dry-Season Water Table (C2)				
Water Marks (B1)		_	Crayfish Burrows (C8)				
Sediment Deposits (B2)			(C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Presence of Reduced Iron (C4)	SI	unted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		_	Recent Iron Reduction in Tilled Soils (C	(6) G	eomorphic Position (D2)		
Iron Deposits (B5)		_	SI	nallow Aquitard (D3)			
Inundation Visible on Aerial	Imagery (B7)	_	Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave	e Surface (B8)			F/	AC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No X	Depth (inches):				
	Vee		Donth (inchoo):		www.Brasant? Vac No V		
Water Table Present?	Yes		Depth (inches):	Wetland Hydrold	ogy Present? Yes <u>No X</u>		
Water Table Present? Saturation Present?			Depth (inches):	Wetland Hydrold			
				Wetland Hydrold			
Saturation Present? (includes capillary fringe)	Yes	No X					
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):		gy Flesent? Tes <u>NO X</u>		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes	No X	Depth (inches):		gy Fresent? Tes NO		
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No X	Depth (inches):				

<b>VEGETATION</b> –	Use scientific n	ames of plants.
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Sampling Point: DP-BF-Upland

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
			Olaldo	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	<u>    0    (</u> A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of:	: Multiply by:
		Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
					x 3 = <u>15</u>
1					x 4 = 400
2					x 5 = 0
3					(A) 415 (B)
4					
5				Prevalence Index = B/A	= 3.95
6				Hydrophytic Vegetation Indic	cators:
7				1 - Rapid Test for Hydrop	
				2 - Dominance Test is >50	
	0	= Total Cover		3 - Prevalence Index is ≤3	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptat data in Remarks or on	
1. Lolium perenne	90	Yes	FACU		
2. <u>Galium boreale</u>	5	No	FAC	Problematic Hydrophytic	√egetation <sup>1</sup> (Explain)
3. Taraxacum officinale	10	No	FACU	<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
4				be present, unless disturbed or	problematic.
5				Definitions of Vegetation Stra	ata:
				Tree – Woody plants 3 in. (7.6	
6				at breast height (DBH), regard	
7					-
8				Sapling/shrub – Woody plants and greater than or equal to 3.2	
9				-	
10				Herb – All herbaceous (non-wo size, and woody plants less that	
11					
12.				Woody vines – All woody vines height.	s greater than 3.28 ft in
	105	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				-	<u>No X</u>
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a sepa No hydrophytic vegetation found at data point	arate sheet.)				

SOIL								Sampl	ing Point: DP-BF-Upland
Profile Descr	iption: (Describe to the	e depth nee	ded to document the	indicator or	confirm th	ne absence	of indicators.)		
Depth	Matrix		Redo	ox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	irks
<u>0-15</u>	10YR 3/2	100					Clay Loam		
<u>15-20</u>	10YR 3/2	85	7.5YR 5/6	15	С	Μ	Clay Loam		
	·								
				_					
<sup>1</sup> Type: C=Cor	ncentration, D=Depletion	, RM=Redu	ced Matrix, MS=Maske	ed Sand Grain	IS.		<sup>2</sup> Location: PL	=Pore Lining, M=Ma	atrix.
Black His Hydrogei Depleted Thick Da Sandy M Sandy G Sandy R Stripped	(A1) vipedon (A2)		Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky M Depleted Matrix Redox Dark Sur Depleted Dark Sur Redox Depressi	ce (S9) ( <b>LRR</b> lineral (F1) ( <b>LI</b> Matrix (F2) (F3) face (F6) Surface (F7)	R, MLRA	149B)	2 cm Mucl Coast Pra 5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Parer Very Shall	Problematic Hydric < (A10) (LRR K, L, M irie Redox (A16) (LR <y (s3)<br="" or="" peat="">ace (S7) (LRR K, L, Below Surface (S8) Surface (S9) (LRR I anese Masses (F12 Floodplain Soils (F1 bdic (TA6) (MLRA 14 in Material (F21) ow Dark Surface (TF plain in Remarks)</y>	MLRA 149B) RR K, L, R) (LRR K, L, R) M) (LRR K, L) K, L) ) (LRR K, L, R) 9) (MLRA 149B) 14A, 145, 149B)
<sup>3</sup> Indicators of	hydrophytic vegetation a	and wetland	hydrology must be pre	esent, unless c	disturbed o	r problemat	ic.		
	ayer (if observed):								
Type: <u>Nor</u> Depth (inc							Hydric Soil Pres	ont? Voc	No X
Remarks:	present at data point								



Project/Site:	Champlain Hudso	n Express		City/County:	Greene		Sa	mpling Date:	: <u>No</u>	vember	22, 20	)21
Applicant/Owner:	CHA			State:	NY		Sar	mpling Point:	DP	-BD		
Investigator(s):	Tristen Peterson			Section, Township	Range:	Catski	I					
Landform (hillslope,	terrace, etc.):	Depression		Local relief (conca	ve, convex, no	one):	Concave		SI	ope (%)	:	1
Subregion (LRR or M	/ILRA):	LRR R	Lat:	42.300805°N	Long:	-73.83	7404°W		Da	atum: NA	D83	
Soil Map Unit Name	: KrA - Kingsbu	ry and Rhinebeck soils, 0	to 3 percent	slopes			NWI classific	cation: <u>No</u>	t Mappe	d		
Are climatic / hydrolo	ogic conditions on	he site typical for this tim	e of year? Ye	es X	K No	(11	f no, explain in R	emarks.)				
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "No	rmal Ci	rcumstances" pre	esent?	Yes	Х	No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If need	ed, expl	ain any answers	in Remarks	.)			

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	X X	No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID: BD
Remarks: (Explain alternative procedures here PSS Wetland located adjacent to railroa				st, scrubby area mixed with dogwood

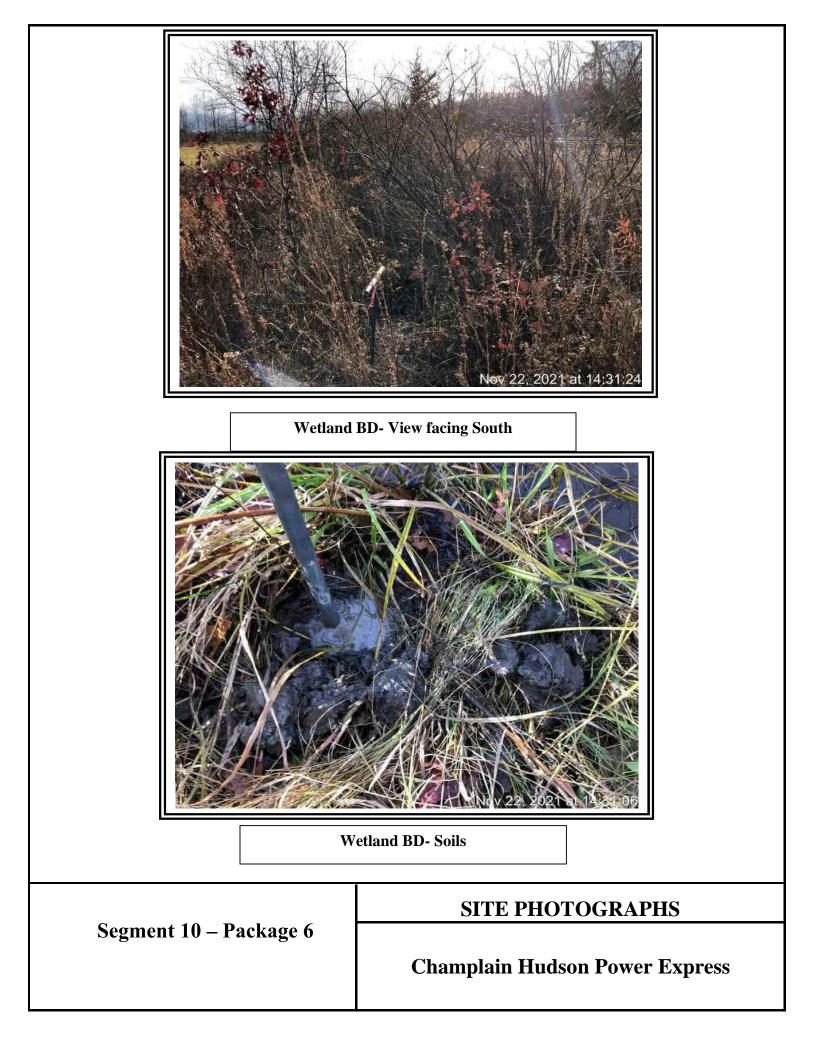
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of o	ne is required; check a	Surface Soil Cracks (B6)	
X Surface Water (A1)		X Water-Stained Leaves (B9)	Drainage Patterns (B10)
X High Water Table (A2)		Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)		Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Room	ots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (	(C6) X Geomorphic Position (D2)
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial	Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concav	e Surface (B8)		FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes X No	Depth (inches): 1 Depth (inches): 1	Wetland Hydrology Present? Yes X No
	gauge, monitoring we	II, aerial photos, previous inspections), if ava	ailable:
Remarks:			

<b>VEGETATION -</b> Use scientific names of plants	5.
--	----

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Number of Domin			
1				That Are OBL, FA	ACW, or FAC:	4(A	)
2 3				Total Number of I Species Across A		<u> </u>	)
4 5				Percent of Domin That Are OBL, FA		<u> </u>	/B)
6							
7				Prevalence Inde Total % Cov	ver of:	Multiply by:	
	=	= Total Cover		OBL species		x 1 = <u>25</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species		x 2 = <u>50</u>	
1. Quercus palustris	10	No	FACW	FAC species		x 3 = <u>105</u>	
2. Frangula alnus	15	Yes	FAC	FACU species		x 4 = <u>80</u>	
3. Cornus racemosa	20	Yes	FAC	UPL species		x 5 = 0	
4. Cornus alba				Column Totals:	105	(A) <u>260</u> (	(B)
5		100		Prevalence	e Index = B/A = :	2.47	
6				Hydrophytic Veg	getation Indicat	ors:	
7					est for Hydrophy		
				X 2 - Dominan			
	60	= Total Cover		X 3 - Prevalen			
Herb Stratum (Plot size: 5 ft.)						ns <sup>1</sup> (Provide supporting	
1. Lythrum salicaria	25	Yes	OBL	data in R	cemarks or on a	separate sheet)	
2. Solidago canadensis	20	Yes	FACU	Problematic	Hydrophytic Ve	getation <sup>1</sup> (Explain)	
3				<sup>1</sup> Indicators of hyd	dric soil and wet	and hydrology must	
4				be present, unles	s disturbed or p	roblematic.	
5				Definitions of Ve	egetation Strata	a:	
6				Tree – Woody pla	ants 3 in. (7.6 cr	n) or more in diameter	
7				at breast height (I	DBH), regardles	s of height.	
8						ess than 3 in. DBH	
9				and greater than	or equal to 3.28	ft (1 m) tall.	
10				Herb – All herbac size, and woody p	-	dy) plants, regardless of	
11							
12				height.	All woody vines g	greater than 3.28 ft in	
	45	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1							
2.				Hydrophytic			
				Vegetation Present?	Yes _	<u>X</u> No	
3				1 rooont 1			
4	·						
	0	= Total Cove	r				
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL

Profile Deceri-	ntion: (Describe to the denth	needed to document the indicator or confir	m the abconce	of indicators )	Sampling Point: DP-B
-				e of mulcators.)	
Depth (inches)	Matrix Color (moist) %	Redox Features Color (moist) % Type	<sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
				- Ontario	Romano
20	10YR 3/1 70	7.5YR 6/6 30 C	М	Clay	
	·				
	· ·				
			_		
	·				
	·			. <u></u>	
	·		_		
	· ·				
	······································				
ype: C=Cond	centration, D=Depletion, RM=R	Reduced Matrix, MS=Masked Sand Grains.		<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Black Hist Hydrogen Stratified I Depleted I Thick Darl Sandy Mu Sandy Gle Sandy Re Stripped N	bedon (A2) ic (A3) Sulfide (A4) Layers (A5) Below Dark Surface (A11) k Surface (A12) cky Mineral (S1) byed Matrix (S4) dox (S5)	<ul> <li>Polyvalue Below Surface (S8) (LRR MLRA 149B)</li> <li>Thin Dark Surface (S9) (LRR R, ML Loamy Mucky Mineral (F1) (LRR K, Loamy Gleyed Matrix (F2)</li> <li>Depleted Matrix (F3)</li> <li>X Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> </ul>	RA 149B)	Coast Prairie Re 5 cm Mucky Pea Dark Surface (S Polyvalue Below Thin Dark Surfac Iron-Manganese Piedmont Flood Mesic Spodic (T. Red Parent Mate	Surface (S8) (LRR K, L) te (S9) (LRR K, L) Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) prial (F21) rk Surface (TF12)
		land hydrology must be present, unless disturb	ed or problema	tic.	
Type: <u>None</u>	yer (if observed):				
				Hydric Soil Present?	Yes X No
Depth (inch					



Project/Site:	Champlain Hudso	on Express		City/County:	Greene		Sampling Da	ate: No	vember 22,	2021
Applicant/Owner:	СНА			State:	NY		Sampling Poi	int: DF	P-BD-Uplan	t
Investigator(s):	Tristen Peterson			Section, Township,	Range:	Catskill				
Landform (hillslope,	terrace, etc.):	Plain		Local relief (concav	ve, convex, no	one):	Convex	S	lope (%):	1
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	42.300817°N	Long:	-73.8373	370°W	D	atum: NAD8	33
Soil Map Unit Name	: KrA- Kingsbu	ry and Rhinebeck s	oils, 0 to 3 percent	slopes			NWI classification:	Not Mappe	ed	
Are climatic / hydrold	ogic conditions on	the site typical for th	is time of year? Ye	es X	K No	(lf n	io, explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	significantl	ly disturbed?	Are "No	rmal Circi	umstances" present?	Yes	X No	)
Are Vegetation	, Soil	, or Hydrology	naturally p	oroblematic?	(If neede	ed, explai	n any answers in Remar	rks.)		

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

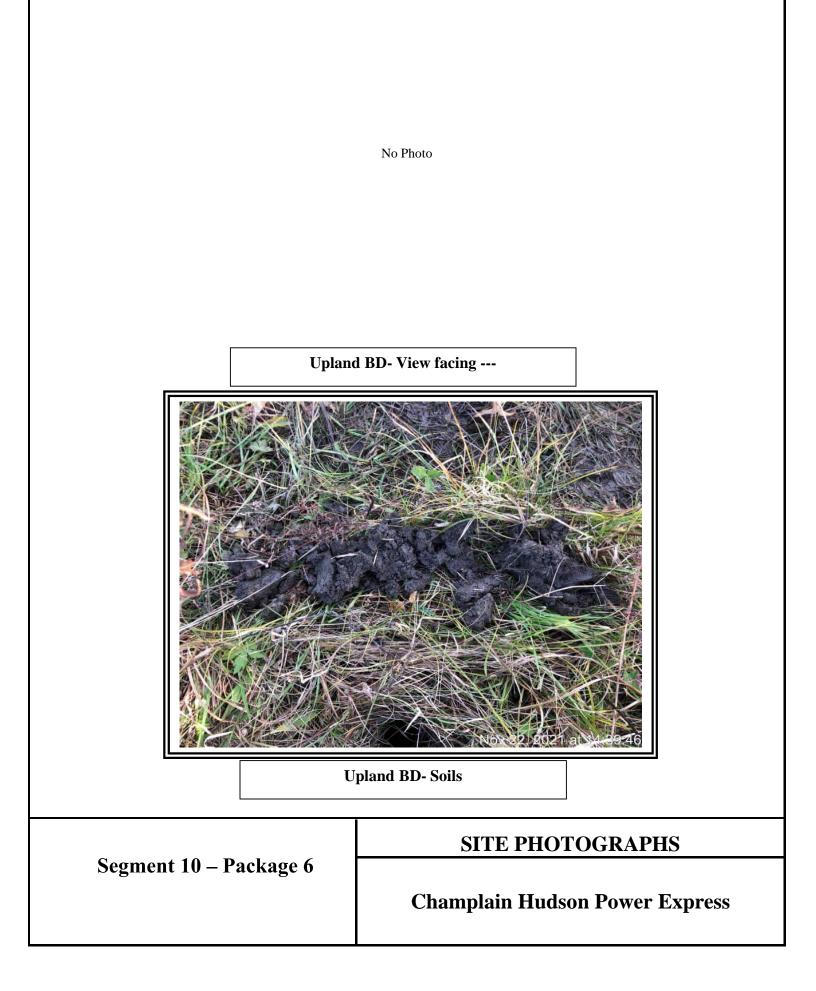
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	x x	Is the Sampled Area within a Wetland?	Yes	No	х	
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:	_			
Remarks: (Explain alternative procedures Upland Data Point for Wetland BD, I			oundary and	d agricultural field				
				a agricalitatian nora				

<b>VEGETATION</b> –	Use	scientific	names	of	plants.
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Sampling Point: DP-BD-Upland

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
	// 00101	000000	Olaldo	Number of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\underline{0}$ $x = \underline{0}$
1				FAC species <u>0</u> x 3 = <u>0</u>
2				FACU species 80 x 4 = 320
3.				UPL species $10$ x 5 = $50$
				Column Totals: <u>90</u> (A) <u>370</u> (B)
4				Prevalence Index = $B/A = 4.11$
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%
	0	= Total Cover		3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Solidago canadensis	40	Yes	FACU	data in Remarks or on a separate sheet)
2. Lolium perenne	30	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Potentilla anglica	10	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Dactylis glomerata		No	FACU	Definitions of Manstation Obstate
5				Definitions of Vegetation Strata:
6				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11.				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	90	= Total Cover		
Weeds View Stratum (Distaires 20.61)	30			
Woody Vine Stratum (Plot size: 30 ft.)				
1				Hydrophytic
2				Vegetation
3				Present? Yes NoX
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)				
No hydrophytic vegetation found at data point				

pth Matrix		Features			
ches) Color (moist) %	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
10YR 4/2 95	10YR 5/6	<u>5</u> C	<u> </u>	Silty Clay Loam	
				·	
				·	
				·	
pe: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked	Sand Grains.		<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
tric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	MLRA 149B) Thin Dark Surface	Surface (S8) (LRR R e (S9) (LRR R, MLRA neral (F1) (LRR K, L)	<b>149B</b> )	2 cm Muc Coast Pra 5 cm Muc	<ul> <li>Problematic Hydric Soils<sup>3</sup>:</li> <li>ck (A10) (LRR K, L, MLRA 149B)</li> <li>airie Redox (A16) (LRR K, L, R)</li> <li>cky Peat or Peat (S3) (LRR K, L, R)</li> <li>face (S7) (LRR K, L, M)</li> </ul>
Stratified Layers (A5) Depleted Below Dark Surface (A11)	Loamy Gleyed Ma Depleted Matrix (F	atrix (F2)		Polyvalue	e Below Surface (S8) (LRR K, L) < Surface (S9) (LRR K, L)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surfa Depleted Dark Sur	Irface (F7)		Piedmon	ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Redox Depressior	ns (F8)		Red Pare	odic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) ent Material (F21) Ilow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)					xplain in Remarks)
dicators of hydrophytic vegetation and wetl strictive Layer (if observed):	and hydrology must be prese	ent, unless disturbed	or problema	atic.	
Type: None					
Depth (inches):				Hydric Soil Pre	esent? Yes <u>No X</u>
narks: nydric soils present at data point					



Project/Site:	Champlain Huds	on Express		City/County:	Greene		Sampling Date:	June 9, 2022
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-BC
Investigator(s):	Tristen Peterson			Section, Town	nship, Range:	Catskill		
Landform (hillslope,	, terrace, etc.):	Depression		Local relief (c <sup>,</sup>	concave, convex, no	one): <u>Concav</u>	е	Slope (%): 1
Subregion (LRR or	MLR <u>A):</u>	LRR R	La	at: 42.229838°N	Long:	73.865452°W		Datum: NAD83
Soil Map Unit Name	e: - Covington a	and Madalin				NWI cl	assification: Not I	Mapped
Are climatic / hydrol	logic conditions or	the site typical for	this time of year?	Yes	<b>X</b> No	(If no, explain	n in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significa	antly disturbed?	Are "Nc	ormal Circumstance	s" present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	naturally	y problematic?	(If need	led, explain any ans	wers in Remarks.)	I
SUMM		INGS – Attach	site map sho	owing sampl	ling point loca	ations, transec	ts, important	features, etc.
Hydrophytic Vege	etation Present?	Yes	X No	١٤	s the Sampled Are	ea		
Hydric Soil Prese			X No	w	vithin a Wetland?	Yes	<u>X</u> No	
Wetland Hydrolog	gy Present?	Yes	X No	lf	f yes, optional Wetl	and Site ID:	BC	
		lures here or in a se depression adjace		nd forested are	эа.			

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (B9)	X Drainage Patterns (B10)				
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots	s (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C	C6) X Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes X No Depth (inches): 4	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes X No Depth (inches): 2					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if avail	lable:				
Remarks: Wetland hydrology present at the Data Point.					

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

Sampling Point: DP-BC

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Juniperus virginiana	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				
3				Total Number of Dominant Species Across All Strata: 2 (B)
				Deveent of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				
				Prevalence Index worksheet: Total % Cover of: Multiply by:
7		= Total Cover		Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{105}{x^2} = \frac{210}{x^2}$
				FAC species $0$ $x 3 = 0$
1				FACU species 10 x 4 = 40
2				UPL species <u>0</u> x 5 = <u>0</u>
3				Column Totals: <u>115</u> (A) <u>250</u> (B)
4				Prevalence Index = $B/A = 2.17$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
	0	= Total Cover		<u>X</u> 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1. Phragmites australis	80	Yes	FACW	
2. Onoclea sensibilis	20	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Impatiens capensis	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	105	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				
				Hydrophytic
2				Vegetation
3				Present? Yes X No
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet. Hydrophytic vegetation found at the Data Point.	)			

SUI

	ription: (Describe to the	donth no	adad to decument the	indiaator o	r oonfirm ti		of indicators )	Sampling Point: DP-BC
		depth ne				le absence	of mulcators.)	
epth iches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
cires)		70		/0	Турс		Texture	Remarks
	10YR 3/2	95	7.5YR 4/6	5	С	М	Clay	
	10YR 4/2	75	7.5YR 4/6	25	С	М	Clay	
	<b>.</b>				. <u> </u>		·	
					·		· ·	
	<u> </u>						· ·	
					·			
					·		· ·	
	<u> </u>				·		· ·	
	· ·				·		· ·	
	ncentration, D=Depletion,	PM-Pod		d Sand Crai			21 agotion: DI – Da	ore Lining, M=Matrix.
	ncentration, D=Depletion,	RIVIEREU	uced Matrix, MS=Maske	a Sana Gra	ins.			blematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Below	/ Surface (S8	B) (LRR R,			10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		MLRA 149B)				Coast Prairie	Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	istic (A3)		Thin Dark Surface	ce (S9) ( <b>LRF</b>	R, MLRA	149B)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky M	lineral (F1) (I	LRR K, L)		Dark Surface	(S7) ( <b>LRR K, L, M</b> )
Stratified	d Layers (A5)		Loamy Gleyed N	/latrix (F2)			Polyvalue Bel	ow Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface (A1	1)	Depleted Matrix	(F3)			Thin Dark Sur	face (S9) ( <b>LRR K, L</b> )
Thick Da	ark Surface (A12)		X Redox Dark Sur	face (F6)			Iron-Mangane	se Masses (F12) ( <b>LRR K, L, R</b> )
	lucky Mineral (S1)		Depleted Dark S					odplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)		Redox Depressi					(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Redox (S5)						Red Parent M	
	Matrix (S6)							Dark Surface (TF12)
_ Dark Su	rface (S7) (LRR R, MLRA	149B)					Other (Explain	in Remarks)
dicators of	hydrophytic vegetation an	nd wetland	hydrology must be pre	esent, unless	disturbed o	or problemat	tic.	
	ayer (if observed):							
Type: <u>No</u> Depth (ind			-				Hydric Soil Present	? Yes X No
	ches).						Tryune oon Tresent	
emarks: /dric soils	present at the Data Po	oint.						



PEM Wetland BC- View facing North.



PEM Wetland BC- Soils

Segment 10 – Package 6

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site:	Champlain Hudson Express			City/County:	Greene		Sampling Date	te: No	vember 22,	2021
Applicant/Owner:	mer: <u>CHA</u> S			State:	NY		Sampling Poin	it: DF	P-BC-Uplan	d
Investigator(s):	Tristen Peterson			Section, Township,	Range:	Catskill				
Landform (hillslope,	terrace, etc.):	Plain		Local relief (concav	ve, convex, no	one):	Convex	S	lope (%):	1
Subregion (LRR or M	//LR <u>A):</u>	LRR R	Lat:	42.296311°N	Long:	-73.8388	23°W	D	atum: NAD8	33
Soil Map Unit Name	: Co- Covingto	n and Madalin soils					NWI classification: N	lot Mappe	ed	
Are climatic / hydrold	ogic conditions on	the site typical for this tim	e of year? Ye	es X	K No	(If no	o, explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "No	rmal Circu	imstances" present?	Yes	X No	o
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If neede	ed, explair	any answers in Remark	ks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	x x	Is the Sampled Area within a Wetland?	Yes	No	x		
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.) Upland Data Point for Wetland BC located in an agricultural field adjacent to access path									
	Julieu in an ag		a aujacent t						

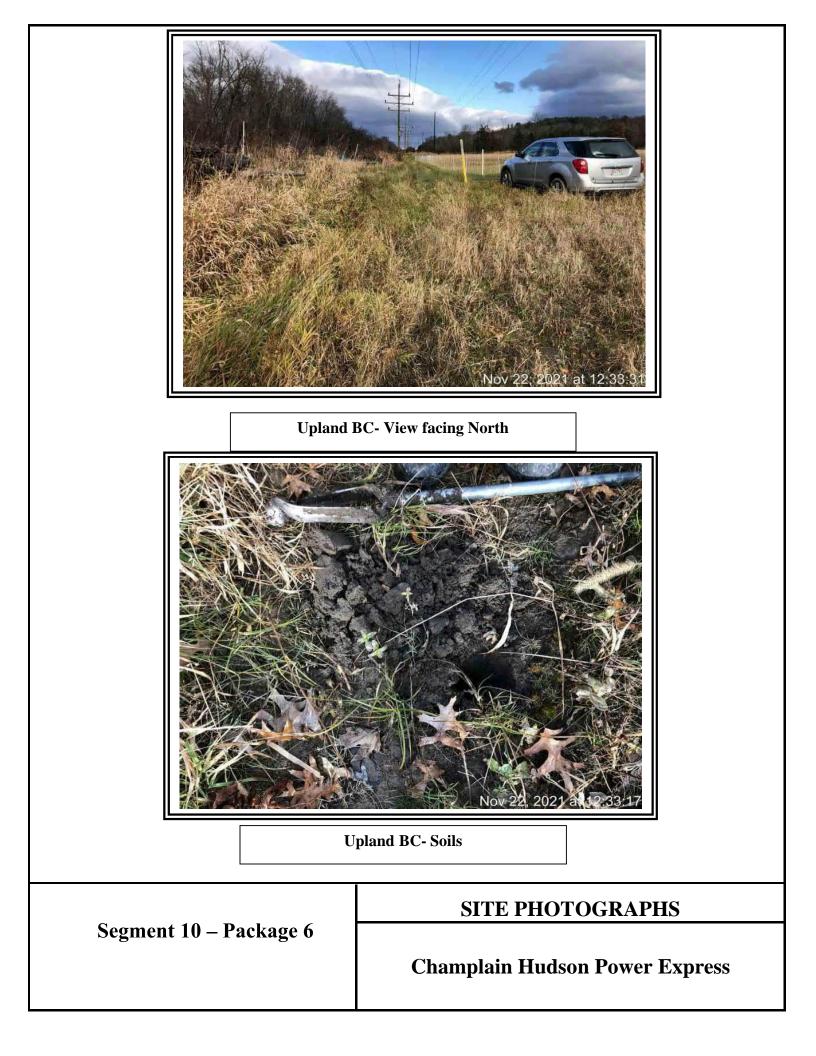
		Wetland Hydrology Indicators:							
Primary Indicators (minimum of or	ne is required;	check	all that	apply)		Surface Soil Cracks (B6)			
Surface Water (A1)			_	Water-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)			_	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)				Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)				Crayfish Burrows (C8)					
Sediment Deposits (B2)			s (C3)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Iron (C4)						Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)				Recent Iron Reduction in Tilled Soils (C	C6)	Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (C7)						Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)						Microtopographic Relief (D4)			
Sparsely Vegetated Concave	e Surface (B8)					FAC-Neutral Test (D5)			
Field Observations:									
Surface Water Present?	Yes	No	Х	Depth (inches):					
Water Table Present?	Yes	No	Х	Depth (inches):	Wetland Hyd	rology Present? Yes <u>No X</u>			
Water Table Present? Saturation Present?	Yes Yes			Depth (inches): Depth (inches):	Wetland Hyd	rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):		rology Present? Yes No <u>X</u>			
Saturation Present? (includes capillary fringe)	Yes	No	Х			rology Present? Yes No <u>X</u>			
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):		rology Present? Yes No <u>X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream Remarks:	Yes	No	Х	Depth (inches):		rology Present? Yes <u>No X</u>			

<b>VEGETATION</b> -	Use scientific n	names of plants.
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Sampling Point: DP-BC-Upland

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	70 00001	000000	Olaluo	Number of Dominant Species	
				That Are OBL, FACW, or FAC: 0 (A)	
2				Total Number of Dominant	
3				Species Across All Strata: 2 (B)	
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/E	2)
5				That Are OBL, FACW, or FAC: 0 (A/E	<i>)</i> )
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	0	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species $0$ $x 2 = 0$	
1				FAC species $5$ $x = 15$	
2				FACU species $15$ x 4 = $60$	
3				UPL species $0$ x 5 = $0$	
4				Column Totals: <u>20</u> (A) <u>75</u> (B	)
				Prevalence Index = B/A = 4	
5				Livdenkutia Vantatian Indiastara	
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
	0	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Herb Stratum (Plot size: 5 ft.)	_			4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1. Alopecurus spp.	25	Yes	NI		
2. Barbarea vulgaris	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3. Lolium perenne	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
4				be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
6				at breast height (DBH), regardless of height.	
7				Sapling/shrub – Woody plants less than 3 in. DBH	
0				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardless of	
10				size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
	45	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic	
2				Vegetation	
3				Present? Yes <u>No X</u>	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate she No hydrophytic vegetation found at data point, located within agricultur					
No hydrophytic vegetation round at data point, rocated within agricultur					
1					

epth	Matrix		Redox Featur				
nches)	Color (moist)	%	Color (moist) %		Loc <sup>2</sup>	Texture	Remarks
2	10YR 4/2	100				Silty Clay Loam	Gravel refusal
							-
					_		
			·				
· .							
pe: C=Conc	entration, D=Depletion,	RM=Reduc	ced Matrix, MS=Masked Sand	Grains.		<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
ric Soil Ind							or Problematic Hydric Soils <sup>3</sup> :
Histosol (A			Polyvalue Below Surface MLRA 149B)	(S8) (LRR R,			uck (A10) (LRR K, L, MLRA 149B)
Histic Epip Black Histi			Thin Dark Surface (S9) (	LRR R. MLRA	149B)		Prairie Redox (A16) ( <b>LRR K, L, R</b> ) ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	Sulfide (A4)		Loamy Mucky Mineral (F		1450)		urface (S7) (LRR K, L, M)
	ayers (A5)		Loamy Gleyed Matrix (F2				ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A1	1)	Depleted Matrix (F3)	,			ark Surface (S9) (LRR K, L)
	Surface (A12)	,	Redox Dark Surface (F6)	)			anganese Masses (F12) (LRR K, L, R)
Sandy Muc	cky Mineral (S1)		Depleted Dark Surface (I	=7)		Piedmo	nt Floodplain Soils (F19) (MLRA 149B)
Sandy Gle	yed Matrix (S4)		Redox Depressions (F8)			Mesic S	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Rec	dox (S5)					Red Pa	rent Material (F21)
Stripped M						Very Sł	nallow Dark Surface (TF12)
Dark Surfa	ace (S7) (LRR R, MLRA	149B)				Other (	Explain in Remarks)
diastars of h	drankutia varatatian an	المعمائمين		lago disturbad c	r probleme	tia	
	ver (if observed):	id wetland	hydrology must be present, un	less disturbed d	r problema	tic.	
Type: <u>None</u>							
Depth (inche						Hydric Soil P	resent? Yes No _X
	1						



Project/Site:	Champlain Hudso	on Express		City/County:	Greene		Sampling Date:	November 19, 202	1
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-BB	
Investigator(s):	Tristen Peterson			Section, Townsh	p, Range:	Catskill			
Landform (hillslope,	terrace, etc.):	Depression		Local relief (conc	ave, convex, no	one): <u>Concave</u>		Slope (%): 1	i
Subregion (LRR or	MLRA):	LRR R	Lat:	42.286004°N	Long:	-73.842095°W		Datum: NAD83	
Soil Map Unit Name	e: Co- Covingto	n and Madalin soils				NWI cla	ssification: Not N	lapped	
Are climatic / hydrol	ogic conditions on	the site typical for thi	is time of year? Ye	es	X No	(If no, explain	in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "No	ormal Circumstances	" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If need	ed, explain any ansv	vers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vege	etation Present?	Yes	<b>X</b> No		e Sampled Are		X No		

Hydric Soil Present?	Yes	X	No	
Wetland Hydrology Present?	Yes	X	No	If yes, optional Wetland Site ID: BB
Remarks: (Explain alternative procedures here of PEM Wetland located within a depression				

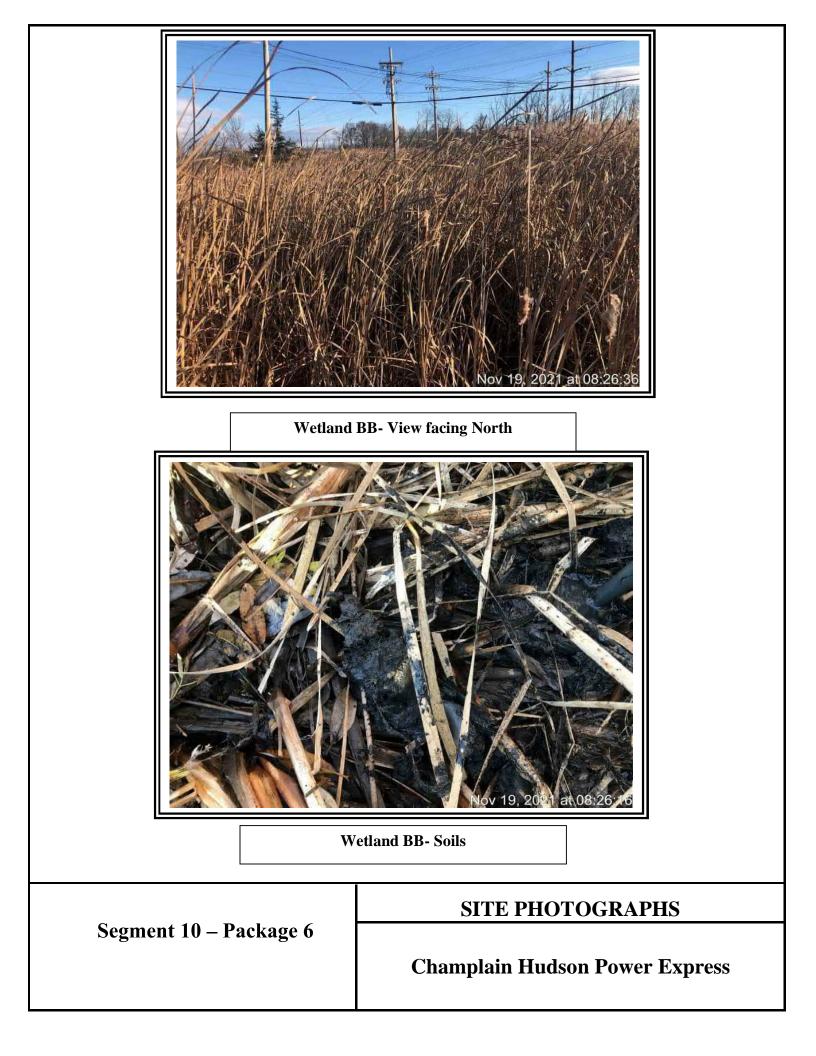
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1)	X Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roo	ts (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6) X Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes X	No Depth (inches): 1	
Water Table Present? Yes	No Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes	No Depth (inches):	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if ava	ilable:
Remarks:		
Nemarks.		

<b>VEGETATION</b> -	Use scientific	names of p	olants.
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Sampling Point: DP-BB

Tree Stratum         (Plot size: 30 ft. )           1.	Absolute % Cover	Species?	Indicator Status	Dominance Test worksheet:           Number of Dominant Species           That Are OBL, FACW, or FAC:         1 (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1 (B)</u>
4				Percent of Dominant Species That Are OBL, FACW, or FAC:1 (A/B)
6 7				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft.)		= Total Cover		OBL species100 $x \ 1 = 100$ FACW species0 $x \ 2 = 0$
	-			FAC species $0$ $x = 0$
1				FACU species 0 x 4 = 0
2				UPL species $0$ $x 5 = 0$
3				
4				Column Totals: <u>0</u> (A) <u>0</u> (B)
5				Prevalence Index = B/A = 1
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	0	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft.)	_			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1 Typha latifolia	100	Vec	OBL	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
				Herb – All herbaceous (non-woody) plants, regardless of
10				
				size, and woody plants less than 3.28 ft tall.
10.       11.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in
10				size, and woody plants less than 3.28 ft tall.
10.       11.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in
10.       11.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in
10.         11.         12.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b>
10.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b>
10.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.		= Total Cover		size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>
10.         11.         12.         Woody Vine Stratum (Plot size: 30 ft.)         1.         2.         3.         4.				size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <b>Hydrophytic</b> <b>Vegetation</b>

Tome Descri	ntion: (Describe to the dorth r	eeded to document the indicator or confirm the absence	Sampling Point: DP-BE
			; or mulcalors.)
epth	Matrix	Redox Features	
nches)	Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
20	10VP 2/1 100		Clay Dark Sail
.0	10YR 2/1 100		Clay Dark Soil
	·		
	·		
			•
	·		
	·		•
			·
			<u> </u>
Type: C=Con	centration, D=Depletion, RM=Re	duced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil In			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (		Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
			—
_	ipedon (A2)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist		Thin Dark Surface (S9) (LRR R, MLRA 149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)	Dark Surface (S7) (LRR K, L, M)
Stratified	Layers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)
Thick Dar	rk Surface (A12)	Redox Dark Surface (F6)	Iron-Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	Depleted Dark Surface (F7)	Piedmont Floodplain Soils (F19) (MLRA 149B)
-	eyed Matrix (S4)	Redox Depressions (F8)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re			Red Parent Material (F21)
	Matrix (S6)		Very Shallow Dark Surface (TF12)
X Dark Surf	face (S7) (LRR R, MLRA 149B)		Other (Explain in Remarks)
Indicators of h	hydrophytic vegetation and wetla	nd hydrology must be present, unless disturbed or problemat	itic.
	yer (if observed):		
Type: None		—	
Depth (inch	nes):		Hydric Soil Present? Yes X No
· · ·			
emarks:			
lemarks:			
lemarks:			
emarks:			
lemarks:			
lemarks:			
emarks:			
emarks:			
lemarks:			



Project/Site:	Champlain Huds	on Express		City/County:	Greene		Sampling Date:	November 19, 2	2021
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-BB-Upland	
Investigator(s):	Tristen Peterson			Section, Township,	Range:	Catskill			
Landform (hillslope,	terrace, etc.):	Plain		Local relief (concav	ve, convex, no	one): <u>Convex</u>		Slope (%):	1
Subregion (LRR or I	MLR <u>A):</u>	LRR R	Lat:	42.285940°N	Long:	-73.842094°W		Datum: NAD83	}
Soil Map Unit Name	Co- Covingto	on and Madalin soils				NWI cla	ssification: Not	Mapped	
Are climatic / hydrole	ogic conditions on	the site typical for thi	s time of year? Ye	es X	K No	(If no, explain	in Remarks.)		
Are Vegetation	X, Soil X	, or Hydrology	X significantl	y disturbed?	Are "No	rmal Circumstances	s" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If neede	ed, explain any ans	wers in Remarks.)	)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	x x	Is the Sampled Area within a Wetland?	Yes	No	X	_
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:	_			
Remarks: (Explain alternative procedures Upland Data Point for Wetland BB,			ea, adjacen	t to Schoharie Tpke				

Wetland Hydrology Indicators:					Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	ne is required; c	check all that	t apply)		Surface Soil Cracks (B6)
Surface Water (A1)			Water-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)			Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)		_	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)		_	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)		_	Oxidized Rhizospheres on Living Root	s (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		_	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)			Recent Iron Reduction in Tilled Soils (	C6)	Geomorphic Position (D2)
Iron Deposits (B5)		_	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial I	Imagery (B7)	_	Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave	e Surface (B8)				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No <u>X</u>	Depth (inches):		
Water Table Present?	Yes	No X	Depth (inches):	Wetland Hy	drology Present? Yes <u>No X</u>
Saturation Present?	Yes	No <u>X</u>	Depth (inches):		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitor	ing well, aeri	ial photos, previous inspections), if avai	ilable:	
Remarks: No wetland hydrology present	at data point				

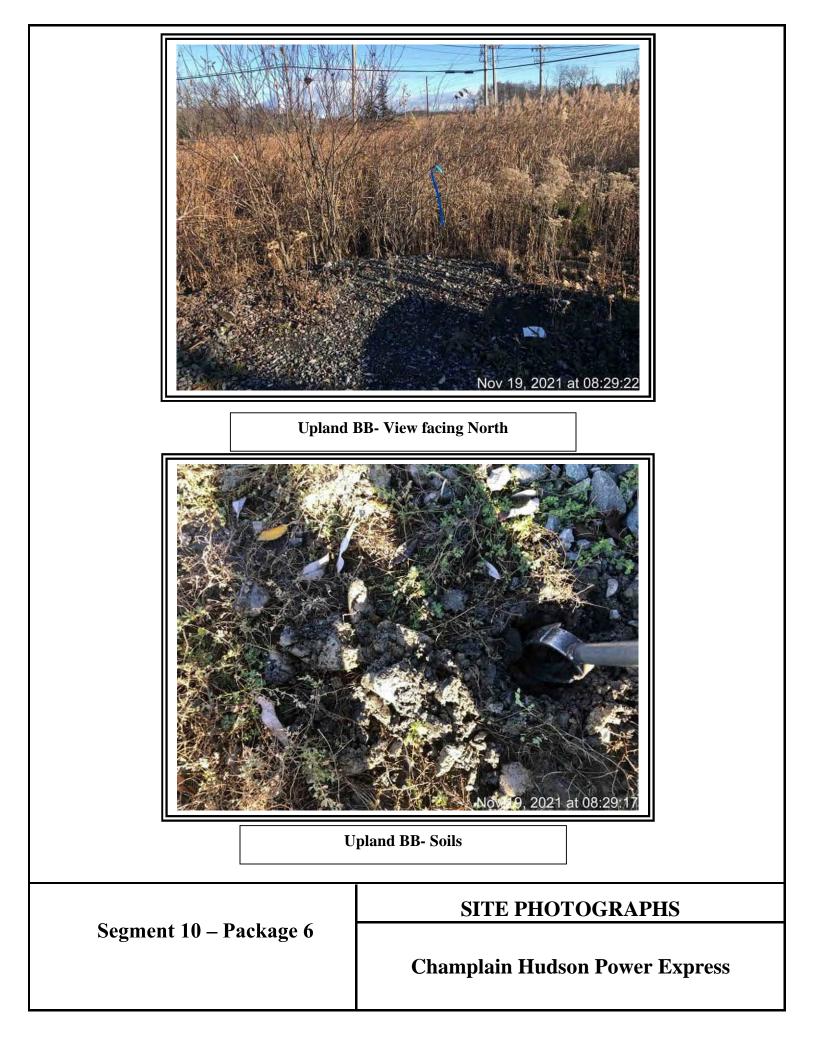
<b>VEGETATION</b> -	Use scientific n	names of plants.
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Sampling Point: DP-BB-Upland

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Number of Domin That Are OBL, Fa	nant Species		0	<u>(</u> A)
2				Total Number of Species Across A			2	(B)
4 5				Percent of Domir That Are OBL, F.			0	(A/B)
6 7				Prevalence Inde Total % Cov		M	ultiply by:	
		= Total Cover		OBL species	0	x 1 =	0	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 =	0	
1				FAC species	0	x 3 =	0	
				FACU species	50	x 4 =	200	
2				UPL species	0	x 5 =	0	
3				Column Totals:	50	(A)	200	(B)
4 5				Prevalence	e Index = B/A =	4		
6				Hydrophytic Ve	getation Indicat	tors:		
7				1 - Rapid Te	est for Hydrophy	rtic Veget	tation	
				2 - Dominar				
Hach Stratum (Blat aiza: 5.ft.)	0	= Total Cover		3 - Prevaler 4 - Morphol			/ido cupportir	20
Herb Stratum (Plot size: 5 ft.)					Remarks or on a			ng
1. Lotus unifoliatus								
2. Ribes oxyacanthoides	20	Yes	FACU	Problematic				
3				<sup>1</sup> Indicators of hydrogeneration	dric soil and wet	land hydr	rology must	
4				be present, unles	ss disturbed or p	roblemat	tic.	
				Definitions of V	egetation Strata	a:		
5				Definitions of V	-		re in diamete	r
5 6					ants 3 in. (7.6 cr	m) or mor		r
5 6 7				<b>Tree</b> – Woody pl at breast height (	ants 3 in. (7.6 cr (DBH), regardles	m) or mor ss of heig	ht.	r
5.         6.         7.         8.				Tree – Woody pl	ants 3 in. (7.6 cr (DBH), regardles - Woody plants le	m) or mor ss of heig ess than	ht. 3 in. DBH	r
5 6 7 8 9				Tree – Woody pl at breast height ( Sapling/shrub – and greater than	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28	m) or mor ss of heig ess than s ft (1 m) t	ht. 3 in. DBH tall.	
5.         6.         7.         8.				Tree – Woody pl at breast height ( Sapling/shrub –	ants 3 in. (7.6 cr (DBH), regardles - Woody plants lo or equal to 3.28 ceous (non-woo	m) or mor ss of heig ess than s ft (1 m) t dy) plants	ht. 3 in. DBH tall. s, regardless	
5 6 7 8 9				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than	m) or mor ss of heig ess than 8 ft (1 m) t dy) plants 3.28 ft ta	ht. 3 in. DBH tall. s, regardless all.	
5.         6.         7.         8.         9.         10.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than	m) or mor ss of heig ess than 8 ft (1 m) t dy) plants 3.28 ft ta	ht. 3 in. DBH tall. s, regardless all.	
5.         6.         7.         8.         9.         10.         11.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – /	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than	m) or mor ss of heig ess than 8 ft (1 m) t dy) plants 3.28 ft ta	ht. 3 in. DBH tall. s, regardless all.	
5.         6.         7.         8.         9.         10.         11.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – /	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than	m) or mor ss of heig ess than 8 ft (1 m) t dy) plants 3.28 ft ta	ht. 3 in. DBH tall. s, regardless all.	
5.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – /	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than	m) or mor ss of heig ess than 8 ft (1 m) t dy) plants 3.28 ft ta	ht. 3 in. DBH tall. s, regardless all.	
5.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – /	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than	m) or mor ss of heig ess than 8 ft (1 m) t dy) plants 3.28 ft ta	ht. 3 in. DBH tall. s, regardless all.	
5.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height.	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all.	
5.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.				Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	
5.	     0	= Total Cover		Tree – Woody pl at breast height ( Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – / height. Hydrophytic Vegetation	lants 3 in. (7.6 cr (DBH), regardles - Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	m) or mor ss of heig ess than ft (1 m) f dy) plant 3.28 ft ta greater th	ht. 3 in. DBH tall. s, regardless all. han 3.28 ft in	

SO Pro

Profile Description:	(Describe to the	depth need	led to document the in	ndicator or	confirm th	e absence	of indicators.)		
Depth	Matrix		Redox	Features		0			
(inches) Co	olor (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u></u>	Remarks
5	10YR 4/2	100					Silt	Silt mixed with Gra	avel
								·	
		·							
	·	·							
		·							
	·	·							
		·							
								·	
	,							<u></u>	
ype: C=Concentrat	ion, D=Depletion,	RM=Reduc	ed Matrix, MS=Masked	I Sand Graii	ns.		<sup>2</sup> Location	: PL=Pore Lining,	M=Matrix.
dric Soil Indicato	rs:						Indicators	for Problematic H	lydric Soils <sup>3</sup> :
Histosol (A1)			Polyvalue Below S	Surface (S8	) (LRR R,		2 cm 1	Muck (A10) (LRR I	K, L, MLRA 149B)
Histic Epipedon			MLRA 149B)					Prairie Redox (A1	
Black Histic (A3)			Thin Dark Surface			149B)		-	t (S3) (LRR K, L, R)
<ul> <li>Hydrogen Sulfid</li> <li>Stratified Layers</li> </ul>		-	Loamy Mucky Mir Loamy Gleyed Ma		.KK K, L)			Surface (S7) ( <b>LRR</b> alue Below Surface	
	Dark Surface (A1	1)	Depleted Matrix (F					ark Surface (S9) (	
Thick Dark Surfa		.,	Redox Dark Surfa	-					s (F12) ( <b>LRR K, L, R</b> )
Sandy Mucky Mi	ineral (S1)	•	Depleted Dark Su	Irface (F7)			Piedm	iont Floodplain Soi	ls (F19) ( <b>MLRA 149B</b> )
Sandy Gleyed N	latrix (S4)	,	Redox Depression	ns (F8)					RA 144A, 145, 149B)
Sandy Redox (S								arent Material (F2	
Stripped Matrix (								Shallow Dark Surfa	
Dark Surface (S	7) (LRR R, MLRA	. 149B)					Other	(Explain in Remar	ks)
	h. 4' 4 - 4'		nydrology must be pres		-1		:-		
estrictive Layer (if			iyulology must be pres	ent, uniess	uistui beu u	i problemat	ic.		
Type: <u>None</u>	observeuj.								
Depth (inches):							Hydric Soil	Present? Yes	No X
							,		



Project/Site: CHPE- Package 6- S	schoharie Turnpike	Cit	ty/County: Athens	/ Greene		Sampling Date: <u>9/7/2022</u>
Applicant/Owner: CHPE				State:	<u>NY</u>	Sampling Point: GP6-O-Wet
Investigator(s): K. Weiskotten, K. S	Schumacher		Section, To	wnship, Range: ]	Fown of A	thens
Landform (hillside, terrace, etc.):	Depressions	Local relie	ef (concave, conve	ex, none): <u>Conca</u>	ve	Slope %: 0
Subregion (LRR or MLRA): LRR	R, MLRA 144B Lat:	42°,17',10.00' 'N	Long:	-73°,50',31.00"		Datum:
Soil Map Unit Name: Covington a	nd Madalin soils			NWI classif	ication:	PEM
Are climatic / hydrologic conditions	on the site typical for t	this time of year?	Yes X	No	(If no, ex	plain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed	? Are "Norr	nal Circumstance	es" preser	nt? Yes <u>X</u> No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	? (If neede	d, explain any an	swers in I	Remarks.)
SUMMARY OF FINDINGS -	Attach site map	showing sampling	ng point locat	ions, transec	ts, imp:	ortant features, etc.
Hydrophytic Vegetation Present?	Yes X	No	is the Sampled A	rea		
Hydric Soil Present?	Yes X	No	within a Wetland	? Yes	x	No
Wetland Hydrology Present?	Yes X	No I	lf yes, optional We	etland Site ID:		
Remarks: (Explain alternative pro	cedures here or in a se	eparate report.)				

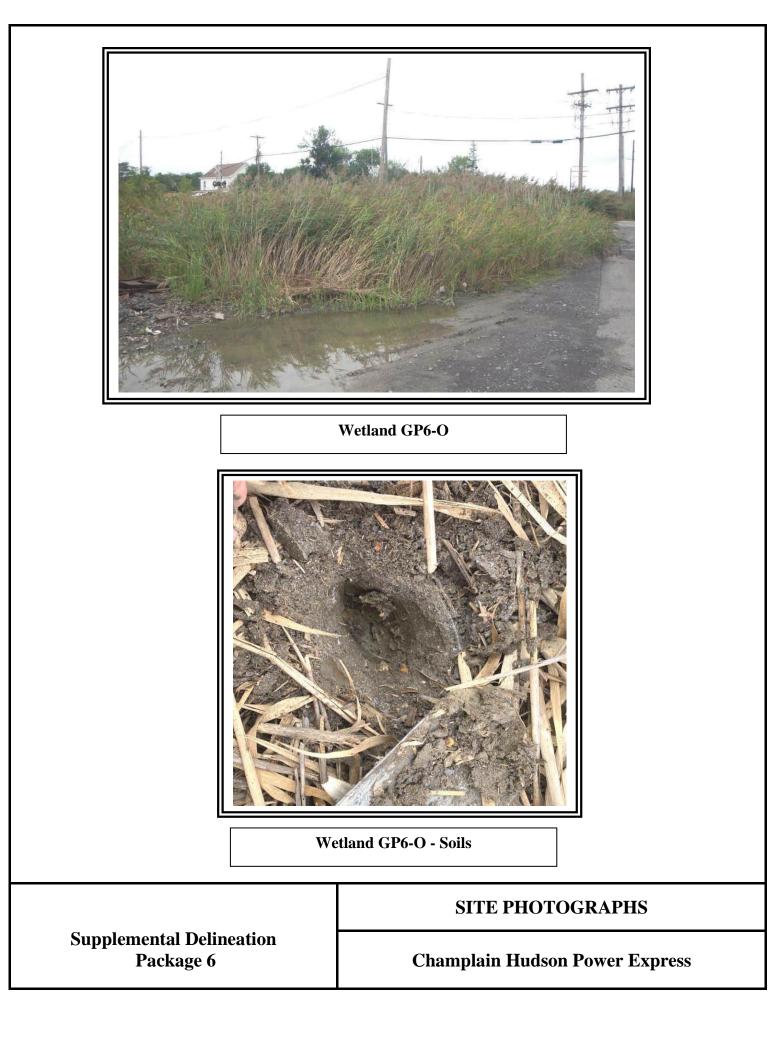
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)
X Surface Water (A1)	X Water-Stained Leaves (B9)		X Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living R	oots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soi	s (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes X	No Depth (inches): 8		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetlan	nd Hydrology Present? Yes X No
		Wetlan	nd Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No X Depth (inches):		

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

Sampling Point: GP6-O-Wet

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3.       4.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
				Prevalence Index = B/A =
o 7				Hydrophytic Vegetation Indicators:
··		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5 )				X 2 - Dominance Test is >50%
· · · · · · · · · · · · · · · · · · ·	25	Yes	FACW	$3$ - Prevalence Index is $\leq 3.0^{1}$
1. Phragmites australis				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Typha angustifolia	25	Yes	OBL	data in Remarks or on a separate sheet)
3. Solidago altissima	10	No	FACU	
4. Dipsacus fullonum	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15 )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				the develop of a
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	ription: (Describe	to the de	pth needed to docu	iment tl	he indica	tor or co	onfirm the absence o	f indicators.)			
Depth	 Matrix			x Featur							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-2	10YR 4/4	100					Loamy/Clayey				
2-7	10YR 3/2	98	10YR 6/6	2	С	М	Loamy/Clayey	Prominent redox concentrations			
7-12	10YR 2/1	95	10YR 6/6	5	С	М	Loamy/Clayey	Prominent redox concentrations			
<sup>1</sup> Type: C=C	oncentration, D=Depl	letion RM		/S=Mas	ked San	Grains	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.			
Hydric Soil								or Problematic Hydric Soils <sup>3</sup> :			
Histosol			Polyvalue Belo	w Surfa	ce (S8) (	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )			
Histic Ep	oipedon (A2)		MLRA 149B	)			? Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )			
Black Hi	( )		Thin Dark Surf					ucky Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4)		High Chroma S	-				Polyvalue Below Surface (S8) (LRR K, L)			
	l Layers (A5)		Loamy Mucky			R K, L)		rk Surface (S9) ( <b>LRR K, L</b> )			
· ·	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )			
	ark Surface (A12)		Depleted Matri	` '				nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )			
	lucky Mineral (S1) Gleyed Matrix (S4)		X Redox Dark Su Depleted Dark	-				podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)			
	edox (S5)		Redox Depress					allow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) (LR		0)						
	rface (S7)			IX IX, E)			Other (Explain in Remarks)				
<sup>3</sup> Indicators o	f hydrophytic vegetat	ion and w	vetland hydrology mu	ust be pr	resent, ur	nless dist	urbed or problematic.				
Restrictive	Layer (if observed):										
Туре:											
Depth (ii	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No			
Remarks:											
								CS Field Indicators of Hydric Soils,			
version 7.0,	2015 Errata. (http://w	/ww.mcs.	usua.gov/internet/F3			5/nrcs 14	2p2_051293.docx)				



Project/Site: CHI	PE- Package	e 6- Schoharie Turnpil	ke (	City/County: Athens/ Greer	ne	Sar	npling Date: 9	9/7/2022
Applicant/Owner:	CHPE				State:	NY S	ampling Point:	GP6-O-Up
Investigator(s): K	. Weiskotten	, K. Schumacher		Section, Township	, Range: <u>T</u>	own of Athe	ens	
Landform (hillside,	terrace, etc.	): Depressions	Local re	lief (concave, convex, non	e): <u>Concav</u>	e	Slope	%: 0
Subregion (LRR or	r MLRA): L	RR R, MLRA 144B	Lat: <u>42°,17',10.00' 'N</u>	Long: <u>-73°</u> ,5	50',31.00"		Datum:	
Soil Map Unit Nam	ne: Covingt	on and Madalin soils		N	IWI classific	cation: <u>No</u>	ne	
Are climatic / hydro	ologic conditi	ions on the site typica	I for this time of year?	Yes X	No(	(If no, expla	ain in Remarks.	.)
Are Vegetation	, Soil	, or Hydrology	significantly disturbe	d? Are "Normal Cire	cumstances	s" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology	naturally problemation	c? (If needed, expla	ain any ans	wers in Rei	marks.)	
SUMMARY OF		S – Attach site i	map showing samp	ling point locations,	transect	ts, impor	tant feature	es, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ıres here or in a	separate report.)	·

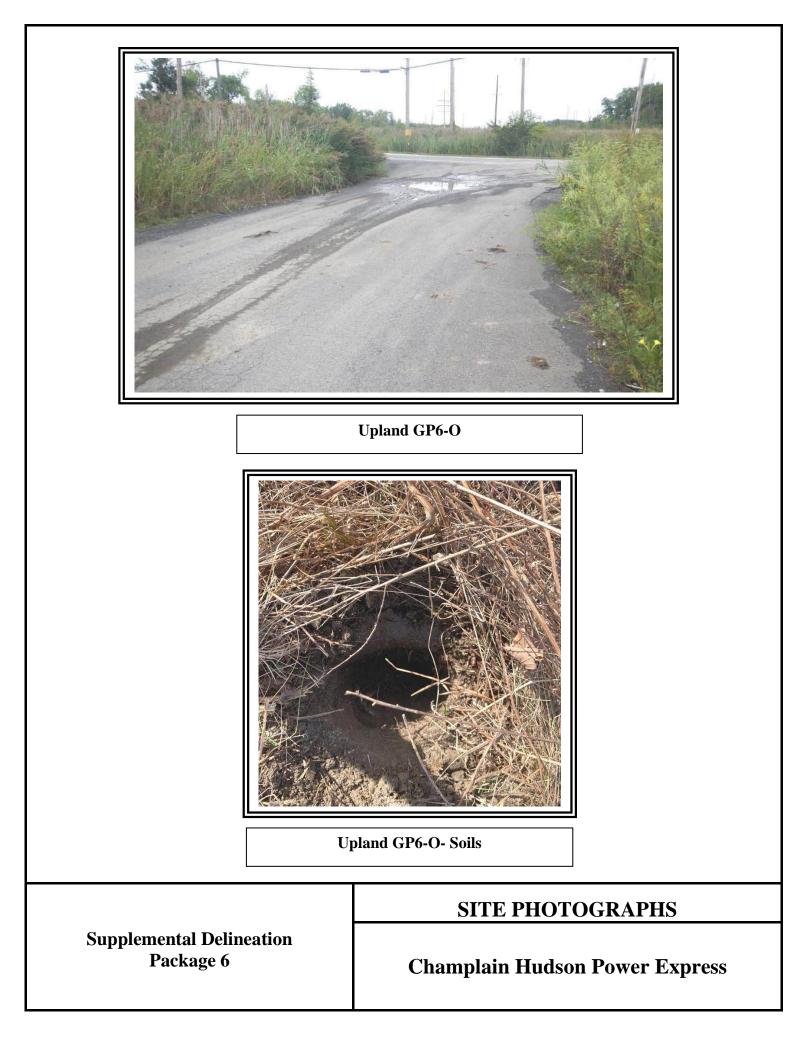
Wetland Hydrology Indicators:			Secondary Indicators (minimu	m of two required)
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (	(C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aeria	al Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)			s (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	Recent Iron Reduction in Tilled Soils (C6)		1
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (E	7) Other (Explain in Remarks)		Microtopographic Relief (	04)
Sparsely Vegetated Concave Surface	(B8)		FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetlan	d Hydrology Present?	Yes No X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspe	ctions), if a	available:	
Remarks:				

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

Sampling Point: GP6-O-Up

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		·		Number of Dominant Species
2		<u> </u>		That Are OBL, FACW, or FAC:(A)
3		<u> </u>	<u> </u>	Total Number of Dominant
4		·		Species Across All Strata:3(B)
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
o 7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
<u>Sapling/Shrub Stratum</u> (Plot size: 15 )		•		OBL species         x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
1. Centaurea stoebe	5	No	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Schedonorus pratensis	10	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Phragmites australis	15	Yes	FACW	data in Remarks or on a separate sheet)
4. Solidago altissima	15	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Dipsacus fullonum</u>	25	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9		·		diameter at breast height (DBH), regardless of height.
10		·		Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12	70	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15 )		-		Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ument tl	he indica	tor or co	onfirm the absence of ir	dicators.)
Depth	Matrix		Redo	x Featur	res			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5YR 3/2	100					Loamy/Clayey	
2-10	7.5YR 4/2	100					Loamy/Clayey	
		· ·						
		· ·						
		· ·						
		· ·						
		· ·						
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.		Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Muck	(A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast Prair	ie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9	) (LRR R	, MLRA 1	149B) 5 cm Muck	y Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRI</b>	R K, L)	Polyvalue E	Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark S	Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	e (A11)	Loamy Gleyed					inese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	-6)		Mesic Spoo	dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent	Material (F21)
Sandy R	edox (S5)	•	Redox Depress	sions (F	8)		Very Shallo	w Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Exp	ain in Remarks)
Dark Sur	face (S7)							
3								
	ayer (if observed):		etiand hydrology mu	ust be pi	resent, ur	ness dist	urbed or problematic.	
Type:								
Depth (in	iches):						Hydric Soil Present?	Yes No X
Remarks:								
								Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://v	vww.nrcs.u	isda.gov/internet/FS	SE_DOC	JUMENT	S/nrcs14	2p2_051293.docx)	



Project/Site: CHPE- Package 6- Schoharie Tur	npike City/County: Athens/ Greene Samp	pling Date: <u>9/7/20</u>	022
Applicant/Owner: CHPE	State: NY Sat	mpling Point: GP6	∂-P-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Ather	าร	
Landform (hillside, terrace, etc.): Depressions	Local relief (concave, convex, none): Concave	Slope %:	0
Subregion (LRR or MLRA): LRR R, MLRA 144	Lat: <u>42°,17',9.00' 'N</u> Long: <u>-73°,50',30.00"</u>	Datum:	
Soil Map Unit Name: Covington and Madalin sc	ilsNWI classification: PEM	Λ	
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes X No (If no, explain	n in Remarks.)	
Are Vegetation, Soil, or Hydrolog	ysignificantly disturbed? Are "Normal Circumstances" present?	Yes <u>X</u> No	
Are Vegetation, Soil, or Hydrolog	ynaturally problematic? (If needed, explain any answers in Rem	iarks.)	
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point locations, transects, import	ant features, e	ətc.
Hydrophytic Vegetation Present? Ye	es X No Is the Sampled Area		
Hydric Soil Present? Ye	es X No within a Wetland? Yes X No		
Wetland Hydrology Present? Ye	es X No If yes, optional Wetland Site ID:		
Remarks: (Explain alternative procedures here	or in a separate report.)		

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required	)
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks (B6)	
X Surface Water (A1)	X Water-Stained Leaves (B9)		X Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3		Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8	3)		X FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes X	No Depth (inches): 8			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetlan	d Hydrology Present? Yes X No	
		Wetlan	d Hydrology Present? Yes X No	
Saturation Present? Yes	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon	No X Depth (inches):			