

Segment 8 – Package 5A

Project/Site: CHPE - CSX Rail - Rotterdam to Selkirk Yard Section	on City/County: Albany Sampling Date: 11/3/21
Applicant/Owner: CHPE	State: NY Sampling Point: xGR-A-Wet
Investigator(s): KW, KS	Section, Township, Range: Guilderland
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %: 0
Subreaion (LRR or MLRA): LRR R, MLRA 144A Lat: 42°,40',4	
Soil Map Unit Name: Udorthents, Loamy	NWI classification: PEM/PFO
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significa	ntly 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 showi	ng sampling point locations, transects, important features, etc.
Hvdrophytic 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:
Identified as Wetland G-R-A on wetland ma	apping and in report text.
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that approximate stress) Surface Water (A1) X High Water Table (A2) Aquatic Fauna X Saturation (A3) Marl Deposits Water Marks (B1) Hydrogen Sulfit Sediment Deposits (B2) Oxidized Rhize Drift Deposits (B3) Presence of Recent Iron Recent Iron Recent Iron Recent Iron Reserved to Neurophysics Iron Deposits (B5) Thin Muck Sur Inundation Visible on Aerial Imagery (B7) Other (Explain Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) bly) Surface Soil Cracks (B6) Leaves (B9) X (B13) Moss Trim Lines (B10) (B15) Dry-Season Water Table (C2) de Odor (C1) Crayfish Burrows (C8) ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) educed Iron (C4) Stunted or Stressed Plants (D1) eduction in Tilled Soils (C6) Geomorphic Position (D2) face (C7) Shallow Aquitard (D3) in Remarks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Field Observations:) (inches):
Water Table Present? Yes No X Depth Saturation Present? Yes X No Depth (includes capillary fringe) Describe Recorded Data (stream gauge monitoring well aerial points)	(inches):
Remarks:	

Sampling Point: XGR-A-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 Acer negundo	15	Yes	FAC	
2 Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant Species
3 Illmus americana	5	<u> </u>	FACW	
4				Total Number of Dominant Species Across All Strata: 7 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)
7.				Prevalence Index worksheet:
	30	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhamnus cathartica	15	Yes	FAC	FACW species x 2 =
2. Lonicera tatarica	5	Yes	FACU	FAC species x 3 =
3. Juniperus virginiana	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')				X 2 - Dominance Test is >50%
1. Phragmites australis	40	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Panicum virgatum	30	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Carex vulpinoidea	10	No	OBL	data in Remarks or on a separate sheet)
4. Lythrum salicaria	10	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5 Typha latifolia	10	No	OBI	
6.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8			·	
9			·	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
10.				
11				Sapling/shrub – 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.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3				Hydrophytic
4			·	Vegetation Present? Yes X No
· · ·		=Total Cover		
Pomorko: /Indudo photo numbero horo or on o con	arata abaat)			
Tremarks. (include proto numbers here of on a sep				

Profile Desc	ription: (Describe	to the de	oth needed to doc	ument t	he indica	tor or co	nfirm the absence of	f indicators.)
Depth	Matrix		Redo	x Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 5/2	100						
6-14	10YR 4/1	97	10YR 5/6	3		<u>M</u>	Loamy/Clayey	Prominent redox concentrations
		·						
		·						
		·						
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Histosol Histosol Black His Hydroge Stratified Depletec Thick Da Sandy M Sandy G Sandy R Sandy R Dark Sur	(A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) I Below Dark Surface rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)	e (A11) tion and w	Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LR	w Surfa in iace (S9 Sands (S Mineral Matrix (ix (F3) urface (F Surface sions (F R K , L)	(LRR R S11) (LRR (F1) (LRI (F2) =6) ⇒ (F7) 8)	LRR R, , MLRA 1 R K, L) R K, L)	49B)2 cm Mu Coast Pr 49B)5 cm Mu Polyvalu Thin Dar Iron-Man Piedmon Piedmon Red Para Very Sha Other (E	ck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) bodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (F22) xplain in Remarks)
Restrictive L	ayer (if observed):	:	, , ,		,		•	
Type:								
Depth (ir	nches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks: This data for Version 7.0, :	n is revised from Nc 2015 Errata. (http://v	orthcentral	and Northeast Reg usda.gov/Internet/F	ional Su SE_DOC	pplemen CUMENT	t Version S/nrcs14	2.0 to include the NRC 2p2_051293.docx)	CS Field Indicators of Hydric Soils,



Project/Site: CHPE - CSX Rail - Ro	otterdam to Selkirk Y	ard Section	City/County: Albany		Sa	ampling Date:	11/3/21
Applicant/Owner: CHPE				State:	NY	Sampling Poi	nt: XGR-A-U
Investigator(s): KW, KS			Section, Township	, Range:	Guilderla	ind	
Landform (hillside, terrace, etc.):	None	Local re	elief (concave, convex, non	e): None		Slo	pe %: 5
Subregion (LRR or MLRA): LRR R	, MLRA 144A Lat:	42°,40',48.17"N	Long: <u>73°,5</u>	6',49.82"W		Datum:	
Soil Map Unit Name: Udorthents, Loamy NWI classification: None							
Are climatic / hydrologic conditions c	on the site typical for	this time of year?	Yes X	No ((If no, exp	lain in Remar	ks.)
Are Vegetation, Soil	, or Hydrology	significantly disturb	ed? Are "Normal Cir	cumstances	s" present	? Yes <u>X</u>	No
Are Vegetation, Soil	, or Hydrology	naturally problemat	ic? (If needed, expl	ain any ans [,]	wers in Re	emarks.)	
SUMMARY OF FINDINGS –	Attach site map	showing samp	ling point locations,	transect	ts, impo	ortant feat	ures, etc.
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area				
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	N	lo_X_	
Wetland Hydrology Present?	Yes	<u>No X</u>	If yes, optional Wetland S	Site ID:			
Remarks: (Explain alternative proc	edures here or in a s	eparate report.)					
HYDROLOGY							
Wetland Hydrology Indicators:			Seco	ndary Indica	ators (min	imum of two	required)
Primary Indicators (minimum of one	is required; check a	II that apply)	9	Surface Soil	Cracks (E	36)	

rimary indicators (minimum of one is required; check all that apply)					Surface Soll Cracks (E	30)		
Surface Water (A1)		Water-	Stained Leaves (B9)	_	Drainage Patterns (B10)			
High Water Table (A2)		Aquatio	c Fauna (B13)	_	Moss Trim Lines (B16)			
Saturation (A3)		Marl D	eposits (B15)	_	Dry-Season Water Table (C2)			
Water Marks (B1)		Hydrog	gen Sulfide Odor (C1)	_	Crayfish Burrows (C8)			
Sediment Deposits (B2)		Oxidize	ed Rhizospheres on Living F	loots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)		Preser	nce of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)		
Algal Mat or Crust (B4)		Recen	t Iron Reduction in Tilled Soi	ls (C6)	Geomorphic Position	(D2)		
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)	1		
Inundation Visible on Ae	rial Imagery (B7)) Other ((Explain in Remarks)	_	Microtopographic Reli	ef (D4)		
Sparsely Vegetated Con	icave Surface (B	B)			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	No X	
(includes capillary fringe)								
Describe Recorded Data (str	eam gauge, mor	nitoring well,	aerial photos, previous insp	ections), if av	ailable:			
Remarks:								

Sampling Point: XGR-A-Up

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30'</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer negundo	10	Yes	FAC	Number of Dominant Species
2. Populus deltoides	10	Yes	FAC	That Are OBL, FACW, or FAC: <u>3</u> (A)
3				Total Number of Dominant
4.				Species Across All Strata: 8 (B)
5				
6				Percent of Dominant Species
7				Provelence Index worksheet
/				
	20	= I otal Cover		I otal % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhus typhina	5	Yes	UPL	FACW species x 2 =
2. Lonicera tatarica	5	Yes	FACU	FAC species x 3 =
3				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6				$\frac{1}{2} = \frac{1}{2} $
7				
/				
	10	= I otal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Setaria faberi	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Equisetum hyemale	20	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Solidago canadensis	20	Yes	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				Indicators of hydric soil and wetland hydrology must
o				De present, unless disturbed of 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		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				
1 Dubus ellestariansis	F	Vaa		Woody vines – All woody vines greater than 3.28 ft in
		165	FACU	neight.
2				Hydrophytic
3				Vegetation
4				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			•

	Matrix		Redo	x Featu	res					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
0-12	10YR 5/3	100								
						·				
		<u> </u>				<u> </u>				
		<u> </u>								
						·				
						·				
Type: C=Cor	ncentration D=Den	etion RM	=Reduced Matrix	/S=Mas	ked Sand	Grains	² l ocation: Pl =Po	elining M=M	atrix	
lydric Soil Ir	ndicators:	cuon, ran				oranio.	Indicators for Pro	blematic Hvd	ric Soils ³	
Histosol (A1)		Polyvalue Belo	w Surfa	ce (S8) (I	RR R.	2 cm Muck (A	10) (LRR K. L.	MLRA 149	B)
Histic Epi	pedon (A2)	-	MLRA 149B)		,	Coast Prairie	Redox (A16) (L	.RR K. L. R)
Black His	tic (A3)		Thin Dark Surf	, ace (S9) (LRR R .	MLRA 1	49B) 5 cm Mucky P	eat or Peat (S3	3) (LRR K. I	, L. R
Hvdrogen	n Sulfide (A4)	-	High Chroma S	Sands (S	511) (LRF	R K. L)	Polyvalue Bel	ow Surface (S8) (LRR K. L	_)
Stratified	Lavers (A5)	-	Loamy Mucky	Mineral	(F1) (LR	RK.L)	Thin Dark Sur	face (S9) (LRR	(,, _ (K . L)	-,
Depleted	Below Dark Surface	(A11)	Loamy Gleved	Matrix ((F2)	, _/	Iron-Mangane	se Masses (F1	2) (LRR K.	L. R
Thick Dar	rk Surface (A12)		Depleted Matri	x (F3)	/		Piedmont Floo	dolain Soils (F	19) (MLRA	149
Sandy Mu	ucky Mineral (S1)	-	Redox Dark Su	urface (F	=6)		Mesic Spodic	(TA6) (MLRA 1	144A. 145. ²	149E
 Sandy Gl	eved Matrix (S4)	-	Depleted Dark	Surface	, (F7)		Red Parent M	aterial (F21)	, , ,	
 Sandy Re	edox (S5)	-	Redox Depres	sions (F	8)		Very Shallow	Dark Surface (F	-22)	
 Stripped M	Matrix (S6)	-	 Marl (F10) (LR	R K, L)	,		Other (Explain	in Remarks)	,	
Dark Surf	face (S7)	-		, ,						
	、 /									
Indicators of	hydrophytic vegetat	ion and we	etland hydrology mu	ust be p	resent, ur	less dist	urbed or problematic.			
Restrictive L:	ayer (if observed):				·					
Type:										
Dooth (in	ches).						Hydric Soil Present?	Yes	No	v
										~



Upland XGR-A - View facing Southeast



Upland XGR-A - View facing Southeast

Phase 2

SITE PHOTOGRAPHS

Sampling Date: <u>11/15/21</u>
Sampling Point: <u>CA-3</u>
Slope (%):
Datum: NAD83
fication: PFM
Remarks.)
" present? Yes 🛛 No 🗌
vers in Remarks.)
1

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu Wetland CA	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)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	bils (C6) 📃 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): 1	
Water Table Present? Yes <u>X</u> No <u>D</u> Depth (inches): 8	
Saturation Present? Yes <u>X</u> No <u>D</u> Depth (inches): 3	Wetland Hydrology Present? Yes 🗵 No 🗌
(includes capillary fringe)	tions) if available:
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspec	aons), il avallable.
Remarks:	
Previously delineated	

Tree Stratum (Plot size: 30)	Absolute	Domina	Int Indicator	Dominance Test worksheet:
1	<u>_/0 Cover</u> _		<u>→</u> <u>→</u> <u>→</u> <u>→</u>	Number of Dominant Species
2		L	┙ ╴ ╴	
3	. <u></u>	L	_}	Total Number of Dominant Species Across All Strata: (B)
3				
+	·			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
S				
o				Prevalence Index worksheet:
7		-		Total % Cover of:Multiply by:
		= Total C	Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)		_		FACW species x 2 =
1. <u>Salix spp</u> .	30	YES	▼ FACW ▼	FAC species X 3 =
2. Cornus alba	30	YES	▼ <u>FACW</u> ▼	IPL species x 5 =
3				Column Totals: (A) (B)
4				
5			<u> </u>	Prevalence Index = B/A =
6.		-	-	Hydrophytic Vegetation Indicators:
7.		-	-	☑ 1 - Rapid Test for Hydrophytic Vegetation
		= Total C	over	2 - Dominance Test is >50%
Horp Stratum (Plot size: 5		Total C	00001	\Box 3 - Prevalence Index is $\leq 3.0^1$
1 Phraemites australis	80	VES		4 - Morphological Adaptations ¹ (Provide supporting
2 Tunha latifalia	20			Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Openeles espeibilis</u>	20			
		YES	▼ <u>FACW</u> ▼	be present, unless disturbed or problematic.
4	·	-		Definitions of Vagatation Strata
5		-		Deminions of Vegetation Strata.
6		-		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		-		at breast neight (DDH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		-		
10		-		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			<u> </u>	
12		_		woody vines – All woody vines greater than 3.28 ft in height.
	100	= Total C	Cover	
Woody Vine Stratum (Plot size: 30)				
1		_	_	
2				Hydrophytic
2				Vegetation Present? Yes 🛛 No 🗍
3			=	
4		-	.	
Bemerke: (Indude phote numbers here of an elegenstate	aboot)	= I otal C	Cover	
Remarks. (include proto numbers here of on a separate	sneet.)			

Profile Desc	ription: (Describe	to the de	pth needed to docu	ment the i	indicator	or confirm	the absence	of indicators.)		
Depth	Matrix		Redo	ox Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-7	10YR/3/1		10yr/4/6				SICL	Prominent redox		
7.16	10vr/5/1	80	10vr/5/6	20	_	_	Sici			
	10311011		1031/0/0							
			· - <u></u>				·			
					-	-				
							·			
							. <u></u>			
					_	_				
							·			
							·			
					-	-				
¹ Type: C=Co	oncentration. D=Dep	letion. RM	I=Reduced Matrix. M	S=Masked	Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:	,	<u> </u>				Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		D Polyvalue Belo	w Surface	(S8) (LR	R,	🔲 2 cm N	/luck (A10) (LRR K, L, MLRA 149B)		
Histic Ep	oipedon (A2)		MLRA 149B	3)			🔲 Coast	Prairie Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3)		Thin Dark Surf	ace (S9) (I	_RR R, M	LRA 149B) 📙 5 cm N	/lucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Mucky	Mineral (F	1) (LRR K	(, L)		Surface (S7) (LRR K, L, M)		
	1 Layers (A5) d Bolow Dark Surfac	o (A11)	Depleted Matri	Matrix (F2	:)			liue Below Surface (S8) (LRR K, L)		
	ark Surface (A12)	e (A11)	Redox Dark Si	v (F6) Inface (F6)				anganese Masses (F12) (LRR K. L. R)		
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F	7)		Piedm	ont Floodplain Soils (F19) (MLRA 149B)		
Sandy G	Bleyed Matrix (S4)		Redox Depres	sions (F8)	,		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy R	ledox (S5)							arent Material (F21)		
Stripped	Matrix (S6)							hallow Dark Surface (TF12)		
Dark Su	rface (S7) (LRR R, I	MLRA 149	IB)				U Other	(Explain in Remarks)		
³ Indicators of	f hvdrophytic vegeta	tion and w	/etland hvdrologv mu	st be prese	ent. unles	s disturbed	or problematio	2		
Restrictive I	_ayer (if observed)	:			,					
Type:			_							
Depth (ind	ches):		_				Hydric Soil	Present? Yes 🔀 No 🔲		
Remarks:										



Wetland CA - View facing south.

Segment 8 – Package 5A

SITE PHOTOGRAPHS



SITE PHOTOGRAPHS

Phase 5

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	Sampling Date: <u>11/16/21</u>		
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>DA-3</u>		
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenectady</u>			
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):		
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.67076</u>	Long: <u>-73.93899</u>	Datum: NAD83		
Soil Map Unit Name:	NWI classi	fication: PFM		
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🛛 No 🔲 (If no, explain in	Remarks.)		
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	antly disturbed? Are "Normal Circumstances	" present? Yes 🛛 No 🗌		
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain any answ	vers in Remarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu Wetland DA	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)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Qxidized Rhizospheres on Living	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 📃 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	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): 6	
Saturation Present? Yes <u>X</u> No <u>Depth</u> (inches): _{Surface}	Wetland Hydrology Present? Yes 🗵 No 🗌
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe)	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No Image: Comparison of the second seco
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No
Saturation Present? Yes Xo Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes X No .
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No :
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No :
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes Xo Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes X No
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes <u>No</u> Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>No</u> :

Tree Stratum (Plot size: 30)	Absolute	Dominant	Indicator	Dominance Test worksheet:			
1				Number of Dominant Species			
2				That are OBL, FACW, of FAC: 3 (A)			
3.				Total Number of Dominant Species Across All Strata: 4 (B)			
4		_	-	Percent of Deminent Species			
5.		-	-	That Are OBL, FACW, or FAC: (A/B)			
6.		-	-				
7		-	-	Total % Cover of Multiply by			
		= Total Cov	er	OBL species x 1 =			
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =			
1. Lonicera spp.	50	YES 🔻	FACU 🔽	FAC species x 3 =			
2. <u>Cornus alba</u>	40	YES 🔽	FACW	FACU species x 4 =			
3		<u> </u>	<u> </u>	UPL species $x 5 =$ (A) (B)			
4							
5	<u> </u>		<u> </u>	Prevalence Index = B/A =			
6	<u> </u>		<u> </u>	Hydrophytic Vegetation Indicators:			
7			<u> </u>	☐ 1 - Rapid Test for Hydrophytic Vegetation			
		= Total Cov	er	\angle 2 - Dominance Test is >50%			
Herb Stratum (Plot size: <u>5</u>)				\square 3 - Prevalence Index is ≤ 3.0			
1. Onoclea sensibilis	20	YES	FACW	data in Remarks or on a separate sheet)			
2. Lythrum salicaria	20	YES 💌	OBL 🔽	Problematic Hydrophytic Vegetation ¹ (Explain)			
3	. <u> </u>		<u> </u>	¹ Indicators of hydric soil and wetland hydrology must			
4		<u> </u>		be present, unless disturbed or problematic.			
5		<u> </u>		Definitions of Vegetation Strata:			
6		<u> </u>		Tree – Woody plants 3 in. (7.6 cm) or more in diameter			
7				at breast height (DBH), regardless of height.			
8	. <u> </u>			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
9				Harb All barbacaous (non woody) plants, reportlass of			
10			<u> </u>	size, and woody plants less than 3.28 ft tall.			
11				Woody vines – All woody vines greater than 3.28 ft in			
12				height.			
	100	= Total Cov	er				
<u>Woody Vine Stratum</u> (Plot size: <u>30</u>)							
1				Hydrophytic			
2				Vegetation			
3		<u> </u>					
4			<u> </u>				
Pemarka: (Include photo numbers here or on a constate	choot)	= Total Cov	er				
	Sileet.)						

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ment the i	ndicator	or confirm	the absence	of indicators.)
Depth (inchos)	Matrix	0/	Redo	ox Features		$1 \circ 2^2$	Toyturo	Domorko
(inches)		<u> </u>		<u>%</u>	<u> </u>	LOC		Remarks
0-14	10YR/3/1	·	10yr/4/6				SICL	Prominent redox
					_	_		
		·						
							<u> </u>	
					-	-		
					_	_		
						·		
		<u></u>			-			
					-	-		
		·						
		·						
					-	-		
¹ Type: C=C	oncentration D=Den	letion RM	=Reduced Matrix M	S=Masked	Sand Gr	ains	² Location	· PI =Pore Lining M=Matrix
Hydric Soil	Indicators:				ound on		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) (LRI	R,	🗌 2 cm N	/luck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			🔲 Coast	Prairie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Thin Dark Surfa	ace (S9) (L	RR R, M	LRA 149B)) 🛄 5 cm N	/lucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)			Mineral (F1) (LRR K	ί, L)		Surface (S7) (LRR K, L, M)
	d Layers (A5) d Bolow Dark Surface	o (A11)	Depleted Matri	Matrix (F2)			ark Surface (S8) (LRR K, L)
	ark Surface (A12)	e (ATT)	Redox Dark Si	rface (F6)				anganese Masses (F12) (LRR K. L. R)
Sandy M	/ucky Mineral (S1)		Depleted Dark	Surface (F	7)		Piedm	ont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Bleyed Matrix (S4)		Redox Depress	sions (F8)			🔲 Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	Redox (S5)							arent Material (F21)
Stripped	I Matrix (S6)							hallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	/LRA 149	в)				U Other	(Explain in Remarks)
³ Indicators o	f hydrophytic vegetat	tion and w	etland hydrology mu	st be prese	ent unless	s disturbed	or problematic	2
Restrictive	Layer (if observed):				,			<u>.</u>
Type:			_					
Depth (in	ches):						Hydric Soil	Present? Yes 🔀 No 🔲
Remarks:								



Wetland DA - View facing south.

Segment 8 – Package 5A

SITE PHOTOGRAPHS



Wetland DA – Soils

SITE PHOTOGRAPHS

Phase 5

Project/Site: CHPE Phase 5		City/C	ounty: Haverstraw			Sampling Date:	11/16/2021
Applicant/Owner: CHA				State:	NY	Sampling Poin	CA-17 DA-1 Upland
Investigator(s): Nick Dominic/	Justin Williams		Section, Township	, Range:			
Landform (hillside, terrace, etc.):	Local relief (c	oncave, convex, non	e):		Slope	e %:
Subregion (LRR or MLRA): L	RR R, MLRA 144B La	t: <u>42.67480</u>	Long: _73.9	4350		Datum:	NAD83
Soil Map Unit Name: Burdett	85%		N	IWI classifi	cation:	Upland	
Are climatic / hydrologic conditi	ons on the site typical fo	or this time of year?	Yes	No	(If no, e	xplain in Remark	s.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Cire	cumstance	s" prese	ent? Yes	No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, expla	ain any ans	swers in	Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	ap showing sampling	point locations,	transec	ts, im	portant featu	res, 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 0	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Upland of Wetland DA and CA	ures here or in a s	separate report.)	

Wetland Hydrology Indica	tors:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimur	<u>n of one is requir</u>	Surface Soil Cracks (B6)				
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B1	0)
High Water Table (A2)		Aquati	c Fauna (B13)		Moss Trim Lines (B16))
Saturation (A3)		Marl D	eposits (B15)		Dry-Season Water Tal	ole (C2)
Water Marks (B1)		Hydrog	gen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidize	ed Rhizospheres on Living F	Roots (C3)	Saturation Visible on A	verial Imagery (C9)
Drift Deposits (B3)		Preser	nce of Reduced Iron (C4)		Stunted or Stressed P	ants (D1)
Algal Mat or Crust (B4)		Recen	t Iron Reduction in Tilled So	ils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)		 Thin M	luck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on A	erial Imagery (B7) Other ((Explain in Remarks)		Microtopographic Relie	ef (D4)
Sparsely Vegetated Co	ncave 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):			
Saturation Present?	Yes	No X	Depth (inches):	Wetla	nd Hvdrology Present?	Yes No X
(includes capillary fringe)			· · · /		, .,	
Describe Recorded Data (st	tream gauge, mo	nitorina well.	aerial photos, previous inst	pections), if	available:	
				,,,		
Remarks:						

Sampling Point: 4-17 DA-1 Upla

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	30	Yes	FACU	Number of Dominant Species
2. Acer saccharinum	30	Yes	FACU	That Are OBL, FACW, or FAC:(A)
3 4				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7.				Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Lonicera spp.	50	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 20 x 3 = 60
3.				FACU species 150 x 4 = 600
4.				UPL species 0 x 5 = 0
5.				Column Totals: 170 (A) 660 (B)
6.				Prevalence Index = B/A = 3.88
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Horb Stratum (Plat size:				2 Dominance Test is >50%
	40	Vaa	FACU	$\frac{2}{2} = Dominance results > 30\%$
1. Solidago spp.	40	<u>res</u>		$\frac{3}{2} = \frac{3}{2} = \frac{3}$
2. Rosa multiflora	20	Yes	FAC	4 - Morphological Adaptations" (Provide supporting
3				
4		·		Problematic Hydrophytic Vegetation (Explain)
5				¹ 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				Sanling/shruh – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12	60	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Manchester All woods visco success the 2.20 ft is
1				height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks
0-7	10yr 3/1	100					Loamy/Clayey		
7-16	10yr 5/1	100					Loamy/Clayey		
_									
		·			·				
					. <u> </u>				
		·			·				
		·			·				
		·			·				
		letion RM		/ <u>s</u> -Maa		- Graine	² Location: E		-Matrix
Hydric Soil I	ndicators:			/10-Ivia:		d Grains.	Indicators f	or Problematic H	lvdric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ace (S8) (I	LRR R,	2 cm Mu	uck (A10) (LRR K	, L, MLRA 149B)
Histic Ep	ipedon (A2))	. , .	,	Coast P	rairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surf	ace (S9) (LRR R	, MLRA ⁻	49B) 5 cm Mu	ucky Peat or Peat	(S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		High Chroma S	Sands (S	S11) (LRF	R K, L)	Polyvalu	ue Below Surface	(S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Da	rk Surface (S9) (L	.RR K, L)
X Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Ma	nganese Masses	(F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		X Depleted Matri	x (F3)			Piedmont Floodplain Soils (F19) (MLR Mesic Spodic (TA6) (MLRA 144A, 145 Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)		
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (I	-6)				
Sandy G	edex (S5)		Depieted Dark	Surface) (⊢7) (⊢7)				
Stripped	Matrix (S6)		Marl (F10) (I R	RKI)	0)				
Dark Sur	face (S7)			····, =/					
³ Indicators of	hydrophytic vegetat	tion and w	etland hydrology mu	ust be p	resent, ur	nless dist	urbed or problematic.		
Restrictive L	ayer (if observed):	:							
Type:									
Depth (in	iches):						Hydric Soil Prese	nt? Yes	<u>No X</u>
Remarks:									





Upland CA/DA – Soils

SITE PHOTOGRAPHS

Phase 5

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE C	City/County: Guilderland/Albany Sampling Date: 8/25/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-S-10 Wet
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local rel	lief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 42 39'57"N	Long: _73 56'10"W Datum: WGS84
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification: PFO1
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 disturbe	ed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology naturally problemati	c? (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: Wetland P5-S near flag P5-S-10
Remarks: (Explain alternative procedure Red maple hardwood swamp.	s 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 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)	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)					
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 N	o x Depth (inches):					
Water Table Present? Yes N	o x Depth (inches):					
Saturation Present? Yes N	o x Depth (inches): Wetland	d Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), if a	available:				
Remarks:						

Sampling Point: P5-S-10 Wet

Trac Charling (Dist size: 20)	Absolute	Dominant	Indicator	Deminence Test werkehest
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?		Dominance Test worksneet:
		res		Number of Dominant Species
2. Fraxinus pennsylvanica	10	No	FACW	That Are OBL, FACW, or FAC: <u>6</u> (A)
3. <u>Alnus incana</u>	10	No	FACW	Total Number of Dominant
4. Quercus bicolor	5	No	FACW	Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 75.0% (A/B)
7				Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species X 1 = 15
1. Cornus amomum	25	Yes	FACW	FACW species 185 x 2 = 370
2. Alnus incana	15	Yes	FACW	FAC species 40 x 3 =20
3. Rhamnus cathartica	15	Yes	FAC	FACU species <u>30</u> x 4 = <u>120</u>
4. Lonicera morrowii	15	Yes	FACU	UPL species x 5 =
5. Ulmus americana	10	No	FACW	Column Totals: 270 (A) 625 (B)
6. Fraxinus pennsylvanica	10	No	FACW	Prevalence Index = B/A =2.31
7.				Hydrophytic Vegetation Indicators:
	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
1. Solidago gigantea	35	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Cornus amomum	20	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Toxicodendron radicans	15	No	FAC	data in Remarks or on a separate sheet)
4. Carex gynandra	15	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Prunella vulgaris	10	No	FAC	
6. Anemone canadensis	5	No	FACW	be present, unless disturbed or problematic.
7. Eupatorium perfoliatum	5	No	FACW	Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				······································
11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
12				
12.	105	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
Woody Vine Stratum (Plot size: 30')				
1 Celastrus orbiculatus	15	Ves	FACU	Woody vines – All woody vines greater than 3.28 ft in height
		103	1700	
2				Hydrophytic
4				Vegetation Present? Yes X No
·		-Total Cover		
Pomarka: (Include photo pumbers here as as a series				
	ale sneel.)			

Profile Des	cription: (Describe	to the de	pth needed to doc	ument tl	ne indica	ator or c	onfirm the absence o	of indicators.)
Depth	Matrix		Redo	x Featur		. 2		
(inches)	Color (moist)		Color (moist)		Туре'	Loc ²	Texture	Remarks
0-5	10YR 2/1	100					Loamy/Clayey	
5-10	2.5Y 3/2	85	2.5Y 6/6	10	с	m	Loamy/Clayey	Prominent redox concentrations
			10YR 5/4	5	c	m		Distinct redox concentrations
10-16	2.5Y 6/1	60	10YR 6/8	40	c	m	Loamy/Clayey	Prominent redox concentrations
	·							
<u> </u>	·							
Hydric Soil	oncentration, D=Dep	pletion, RN	I=Reduced Matrix, I	MS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Histosol	(A1)		Dark Surface	(S7)			2 cm M	uck (A10) (LRR K. L. MLRA 149B)
Histic E	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (LRR R,	Coast P	Prairie Redox (A16) (LRR K, L, R)
Black H	istic (A3)		MLRA 149E	B)			5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Thin Dark Sur	face (S9)) (LRR R	, MLRA	149B) Polyvalu	ue Below Surface (S8) (LRR K, L)
Stratifie	d Layers (A5)		High Chroma	Sands (S	611) (LR	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)
X Deplete	d Below Dark Surfac	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	I Matrix (F2)		Piedmo	nt Floodplain Soils (F19) (MLRA 149B)
Mesic S			X Depleted Matr	1x (⊢3) faaa /⊑			Red Pai	rent Material (F21) (outside MLRA 145
(IVILF Sandy A	(A 144A, 145, 149B) <i>I</i> ucky Mineral (S1)		Redox Dark S	unace (F	0) (F7)		very Sn	allow Dark Surface (F22)
Sandy M	Gleved Matrix (S4)		Depieted Dark	sions (Fi	B)			
Sandy F	Redox (S5)		Marl (F10) (LF	RR K, L)	0)		³ Indicate	ors of hydrophytic vegetation and
Stripped	d Matrix (S6)		Red Parent Ma	aterial (F	21) (MLI	RA 145)	wetla	nd hydrology must be present,
							unles	s disturbed or problematic.
Restrictive	Layer (if observed):	:						
Туре:								
Depth (i	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE C	City/County: Guilderland/Albany Sampling Date: 8/25/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-T We
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local rel	ief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA): LRR R Lat: 42 39'55"N	Long: -73 56'08"W Datum: WGS84
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification: PFO1
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 disturbe	ed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problemation	c? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: Wetland P5-T near flag P5-T-7
Remarks: (Explain alternative procedures Red maple hardwood swamp.	here or in a separate report.)	

wetiand hydrology indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	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 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)	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 (B	B)	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): Wetlar	d Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Date (stream dauge, mar	vitoring well aerial photos previous inspections) if	available.		
Describe Recorded Data (Stream gauge, mor	intoring well, aerial priotos, previous inspections), in	avallable:		
Describe Recorded Data (Stream gauge, mor	ntoring weil, aenai protos, previous inspections), i			
Describe Recorded Data (stream gauge, mor				
Remarks:				

Sampling Point: P5-T Wet

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Ulmus americana	50	Yes	FACW	Number of Dominant Species
2. Fraxinus americana	10	No	FACU	That Are OBL, FACW, or FAC: 7 (A)
3. Quercus bicolor	5	No	FACW	Total Number of Dominant
4. Populus deltoides	5	No	FAC	Species Across All Strata: 10 (B)
5		. <u> </u>		Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 70.0% (A/B)
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15')		-		OBL species 0 x 1 = 0
1. Ulmus americana	15	Yes	FACW	FACW species 105 x 2 = 210
2. Fraxinus pennsylvanica	15	Yes	FACW	FAC species 50 x 3 = 150
3. Rhamnus cathartica	15	Yes	FAC	FACU species 55 x 4 = 220
4. Lonicera morrowii	15	Yes	FACU	UPL species 0 x 5 = 0
5.				Column Totals: 210 (A) 580 (B)
6.		·		Prevalence Index = $B/A = 2.76$
7.		·		Hydrophytic Vegetation Indicators:
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Solidago gigantea	15	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Lonicera morrowii	15	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Rhamnus cathartica	10	Yes	FAC	data in Remarks or on a separate sheet)
4. Persicaria virginiana	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Geranium maculatum	5	No	FACU	
6. Toxicodendron radicans	5	No	FAC	be present, unless disturbed or problematic.
7. Viburnum recognitum	5	No	FAC	Definitions of Vegetation Strata:
8. Galium mollugo	5	No	FACU	Tree Weedy plants 2 in (7.6 cm) or more in
9. Fraxinus pennsylvanica	5	No	FACW	diameter at breast height (DBH), regardless of height.
10.				Serling/shruh Woody plants loss than 2 in DDU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	75	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		•		We showing a Allower during supertor them 2,20,6 in
1. Celastrus orbiculatus	5	Yes	FACU	height.
2.		·		
3				Hydrophytic
4		·		Vegetation Present? Yes X No
	5	=Total Cover		
Remarks: (Include nhoto numbers here or on a sena	rate sheet)			
	ale 311661.)			

SOIL

Depth Matrix Redox Features (inches) Color (moist) % Type Loc ² Texture Remarks 0-7 10YR 3/1 90 10YR 4/6 10 c m Loamy/Clayey Prominent redox concentrations 7-17 10YR 4/1 70 10YR 5/3 30 c m Loamy/Clayey Distinct redox concentrations	Profile Desc	cription: (Describe	to the de	pth needed to doc	ument ti	he indica	ator or c	onfirm the absence of i	ndicators.)
(Inches) Color (most) % Color (most) % Type Loar Itexture Remarks 0-7 10YR 3/1 90 10YR 4/6 10 c m Loarny/Clayey Prominent redox concentrations 7-17 10YR 4/1 70 10YR 5/3 30 c m Loarny/Clayey Distinct redox concentrations	Depth	Matrix		Redo	x Featur		. 2		
0-7 10YR 3/1 90 10YR 4/6 10 c m Learny/Clayey Prominent redox concentrations 7-17 10YR 4/1 70 10YR 5/3 30 c m Learny/Clayey Distinct redox concentrations	(inches)	Color (moist)		Color (moist)		Туре'	Loc	Texture	Remarks
7-17 10YR 4/1 70 10YR 5/3 30 c m Loamy/Clayey Distinct redox concentrations	0-7	10YR 3/1	90	10YR 4/6	10	c	m	Loamy/Clayey	Prominent redox concentrations
Image:	7-17	10YR 4/1	70	10YR 5/3	30	C		Loamy/Clayey	Distinct redox concentrations
Image:									
Image: Stratified Layers (A5) MIRA 149B) Thick Dark Surface (A1) Loary Micky Mineral (A1) Loary Micky Mineral (S1) Depleted Dark Surface (F7) Thick Dark Surface (A12) Loary Micky Mineral (F2) Mesic Spotic (A1) Loary Micky Mineral (F2) Stratified Layers (A5) Higt Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A12) Loary Micky Mineral (F2) Mick 1445, 149B) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Micky Mineral (S1) Depleted Dark Surface (F7) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Type: Depleted Sirk Surface (F7) Depleted Matrix (S6) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Peter (if observed): Trype: Depleted Sirk Sirk Matrix (F10) (LRR K, L) Strippet (inches): Hight coil Present? Yes X Petit (inches): Merker (if observed): Yes X No									
Image:									
Image:									
Image:									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Redox (S5) Mari (F10) (LRR K, L) Sandy Redox (S5) Mari (F10) (LRR K, L) Sandy Redox (S5) Mari (F10) (LRR K, L) Sandy Redox (S6) Merer Material (F21) (MLRA 1445) Red Parent Material (F21) (MLRA 145) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes X No Type: Depth (inches)		·							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Stratified Layers (A5) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Dapressions (F8) Sandy Gleyed Matrix (S6) Med Parent Material (F21) (MLRA 145) Red Parent Material (F21) (MLRA 145) 3 ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Retrictive Layer (If observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes X Remarks:									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) West disturbed or problematic. Very Shallow Dark Surface (F22) Other (Explain in Remarks) Sandy Redox (S5) Sandy Redox (S5) Marl (F10) (LRR K, L) Hydric Soil Present? Yes X No Popleteid Dark Surface (F7) Sendy Mucky (fiobserved): Type: Depth (inch									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Gleyed Matrix (S4) X Redox Dark Surface (F6) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Matri (F10) (LRR K, L) Type: Depth (inches): Depth (inches): Polytalue Soli Present? Yes X No									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Polyvalue Below Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149E) MuRA 1449. X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Mart (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes_X No_									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Dark Surface (F6) (MLRA 144B, 145, 149B) X Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) X Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Type: Deplet (inches): Depth (inches): Horizon (from Soils (F12) (MLRA 1445) Restrictive Layer (if observed): Yes X Type: Depth (inches): Depth (inches): High Chroma Sais (S11) (MLRA 1445)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Higt Case (S7) Som Muck (A10) (LRR K, L, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Zhick Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Medox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Marl (F10) (LRR K, L) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes _X No_	$\frac{1}{1}$ Type: C=C	oncentration D=Den	letion RM		 AS=Mas	ked San		² Location: PL =	Pore Lining M=Matrix
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) 5 cm Muck (A10) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149E) Mesic Spodic (A17) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Hydric Soil	Indicators:			10-11103	Ked Oan		Indicators for	Problematic Hydric Soils ³ :
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L, R) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149E) Mucky Mineral (S1) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Gleyed Matrix (S4) X Redox Depressions (F8) 3 Sandy Redox (S5) Marl (F10) (LRR K, L) 3 ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Histosol	(A1)		Dark Surface (S7)			2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149E) Mesic Spodic (A17) X Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes X No Depth (inches): Depth (inches): Hydric Soil Present? Yes X No	Histic Ep	pipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	Coast Prai	rie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149E Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149E Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3lndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes X No Bemarks: Medicaters: Yes X No No	Black Hi	istic (A3)		MLRA 149B)			5 cm Muck	y Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149E Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149E Mesic Spodic (A17) X Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: Depth (inches): Hydric Soil Present? Yes X No No	Hydroge	en Sulfide (A4)		Thin Dark Surf	ace (S9) (LRR R	, MLRA	149B) Polyvalue I	Below Surface (S8) (LRR K, L)
X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149E Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 14 (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Stratified	d Layers (A5)	() ()	High Chroma S	Sands (S	611) (LR I	RK,L)	Thin Dark	Surface (S9) (LRR K, L)
Image: Middle (A12) Image: Loarity Gleyed Matrix (F2) Image: Predimont Produption Solits (F19) (MLRA 143e Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 14 (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	X Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Manga	anese Masses (F12) (LRR K, L, R)
		nodic (A17)		Loany Gleyed	wanx (ΓΖ)		Pleamont i Red Paren	t Material (E21) (outside MI RA 1496)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) x Redox Depressions (F8) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:		2A 144A 145 149B		X Redox Dark Si	urface (F	6)		Very Shall	ow Dark Surface (E22)
Sandy Gleyed Matrix (S4) x Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes X No Remarks: No No No No No	Sandy M	/ucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (Exp	lain in Remarks)
Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Sandy G	Gleyed Matrix (S4)		x Redox Depres	sions (F	8)		、 .	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Sandy R	Redox (S5)		Marl (F10) (LR	R K, L)			³ Indicators	of hydrophytic vegetation and
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Remarks: Hydric Soil Present?	Stripped	l Matrix (S6)		Red Parent Ma	aterial (F	21) (MLI	RA 145)	wetland	hydrology must be present,
Type:	Restrictive	Layer (if observed):							
Depth (inches): Hydric Soil Present? Yes X No Remarks:	Туре:								
Remarks	Depth (ii	nches):						Hydric Soil Present?	? Yes X No
	Remarks:								



Segment 8 – Package 5A

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE City/	City/County: Guilderland/Albany					
Applicant/Owner: TDI	State: NY	Sampling Point: P5-S & T Upl				
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope Local relief	Slope %: 3					
Subregion (LRR or MLRA): LRR R Lat: 42 39'56"N	Long:73 56'09"W	Datum: WGS84				
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" present?	Yes x No				
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Re	marks.)				

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: Upland adjacent to Wetlands P5-S & P5-T
Remarks: (Explain alternative procedur Mowed powerline ROW. Shared upland	res here or in a separate report.) I point for Wetlands P5-S and P5-T.	

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Moss Trim Lines (B16)	Moss Trim Lines (B16)			
Saturation (A3)	Dry-Season Water Table (C2)				
Water Marks (B1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	(C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		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	d Hydrology Present? Yes No	Х	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monited	oring well, aerial photos, previous inspec	ctions), if	available:		
Remarks:					

Sampling Point: P5-S & T Upl

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: 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 =		
1				FACW species 0 x 2 = 0		
2				FAC species5 x 3 =15		
3.				FACU species 90 x 4 = 360		
4.				UPL species 5 x 5 = 25		
5.				Column Totals: 100 (A) 400 (B)		
6.				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. Poa pratensis	80	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
2. Lotus corniculatus	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting		
3. Centaurea stoebe	5	No	UPL	data in Remarks or on a separate sheet)		
4. Prunella vulgaris	5	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Plantago lanceolata	5	No	FACU			
6.				 Indicators of hydric soil and wetland hydrology must 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		
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:30') 1.				Woody vines – 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	cription: (Describe	to the de	oth needed to doc	ument tl	he indica	ator or c	onfirm the absence of i	ndicators.)		
Depth (inches)	Matrix	0/	Redo	x Featur	Tune ¹		Touturo	Domo		
(incries)	Color (moist)	- 70	Color (moist)		Туре	LOC	Texture	Rema	arks	
0-2	10YR 4/3	100					Loamy/Clayey			
2-10	10YR 5/3	90	10YR 5/8	10	С	m	Loamy/Clayey	Prominent redox	concentrations	
1										
'Type: C=C	oncentration, D=Dep	letion, RM	Reduced Matrix, N	//S=Mas	ked Sand	d Grains.	² Location: PL=	Pore Lining, M=M	atrix.	
Hydric Soil	Indicators:		Dauls Curferer ((07)			Indicators for	Problematic Hyd		
HISTOSO	(A1)		Dark Surface ((57) Ny Surfa	aa (SQ) ((A10) (LRR K, L , ria Roday (A16) (I	MLKA 149B)	
Black Hi	stic (A3)		Folyvalue Beiα	Suna S	ce (30) (LKK K,	5 cm Muck	v Peat or Peat (S	$\mathbf{R}\mathbf{R}\mathbf{K},\mathbf{L},\mathbf{K}$	
Hvdroge	en Sulfide (A4)		Thin Dark Surf	') face (S9)		MLRA	149B) Polyvalue	Below Surface (S8	(LRR K, L)	
Stratified	d Lavers (A5)		High Chroma S	Sands (S	611) (LRI	R K, L)	Thin Dark	Surface (S9) (LRR	(,,,,,,,,, _	
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Manga	anese Masses (F1	2) (LRR K, L, R)	
Thick Da	ark Surface (A12)	. ,	Loamy Gleyed	Matrix (F2)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic S	Mesic Spodic (A17) Depleted Matrix (F3)				Red Parent Material (F21) (outside MLRA 145)					
(MLR	A 144A, 145, 149B)		Redox Dark Si	urface (F	6)		Very Shall	ow Dark Surface (I	=22)	
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Exp	lain in Remarks)		
Sandy G	Gleyed Matrix (S4)		Redox Depres	sions (F	8)		3			
Sandy F	Sandy Redox (S5)Marl (F10) (LRR K, L)				³ Indicators of hydrophytic vegetation and					
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetland hydrology must be present,			
Postrictivo	aver (if observed):							isturbed or probler		
Type.	Layer (il observeu).									
Depth (ii							Hudria Sail Dresent		No. Y	
							Hydric Soli Fresent			
Remarks:										


U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 2/21/23
Applicant/Owner: TDI	State: NY Sampling Point: PSA-GG Wet (PEM)
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Slight depression Local r	elief (concave, convex, none): <u>Convex</u> Slope %: <u>1</u>
Subregion (LRR or MLRA): LRR R Lat: 42.664202	Long: -73.934878 Datum: WGS84
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification: PEM2
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	Ded? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? 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 Shallow emergent marsh, periodically mov	here or in a separate report.) ved.	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	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)		
X 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)		
X Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes X	No Depth (inches): 1			
Water Table Present? Yes X	No Depth (inches): 10			
Saturation Present? Yes X	No Depth (inches): 8 Wetla	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: P5A-GG Wet (PEM)

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:(A)
3 4				Total Number of Dominant Species Across All Strata: <u>1</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 85 x 1 = 85
1.				FACW species 15 x 2 = 30
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5				Column Totals: 100 (A) 115 (B)
6				$\frac{115}{2}$
7				Hydrophytic Vegetation Indicators:
··		-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Horb Stratum (Plot size: 5')				X 2 Deminance Test is >50%
(Flot size)	05	Vee		\times 2 - Dominance results > 30 %
1. Juncus enusus		res		$\frac{1}{2}$ 3 - Prevalence index is \geq 5.0
2. Phalaris arundinacea	10	<u></u>		data in Remarks or on a separate sheet)
3. Symphyotrichum novae-angliae	5	No	FACW	
4				Problematic Hydrophytic Vegetation (Explain)
5				¹ 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.				Horb All horbaccous (non woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				We during All words vices greater than 2.29 ft in
1.				height.
2.				
3.				Hydrophytic
4				Vegetation Present? Yes X No
· · · · · · · · · · · · · · · · · · ·		=Total Cover		
Pomarka: (Include photo numbers here or on a sona				
Remarks. (include photo numbers here of on a sepa	rate sheet.)			

SOIL

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument tl	he indica	ator or co	onfirm the absence o	f indicators.)	
Depth	Matrix		Redo	x Featur		. 2		_	
(inches)	Color (moist)		Color (moist)		Туре	Loc	Texture	Rem	narks
0-9	10YR 3/1	90	10YR 5/3	10	<u> </u>		Loamy/Clayey	Distinct redox	concentrations
9-16	2.5Y 5/2	50	10YR 5/6	40	С		Loamy/Clayey	Prominent redo	x concentrations
			10YR 3/1	10	<u> </u>		·	Distinct redox	concentrations
							·		
<u> </u>									
		Lotion PM			kod Sand		² Location: P		Vatrix
Hydric Soil	Indicators:		I-Reduced Matrix, N	/IO-IVIAS	keu Sand	i Grains.	Indicators fo	or Problematic Hv	dric Soils ³ :
Histosol	(A1)		Dark Surface (S7)			2 cm Mu	uck (A10) (LRR K, L	., MLRA 149B)
Histic Ep	pipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	Coast Pr	rairie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		MLRA 149B)			5 cm Mu	ucky Peat or Peat (S	63) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Thin Dark Surf	ace (S9)) (LRR R	, MLRA ′	149B)Polyvalu	ie Below Surface (S	68) (LRR K, L)
Stratified	d Layers (A5)		High Chroma S	Sands (S	611) (LRI	R K, L)	Thin Dar	rk Surface (S9) (LR	R K, L)
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Mar	nganese Masses (F	12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Mesic S	Mesic Spodic (A17)Depleted Matrix (F3)					Red Parent Material (F21) (outside MLRA 145)			
(MLR	(MLRA 144A, 145, 149B) X Redox Dark Surface (F6)					Very Sha	allow Dark Surface	(F22)	
Sandy M	Aucky Mineral (S1)		Depleted Dark	Surface	(F7) 0)		Other (E	xplain in Remarks)	
Sandy B	Bieyed Matrix (54)		A Redox Depres		8)		³ Indicato	ore of hydrophytic yr	actation and
Strippod	(edux (SS)		Nall (F 10) (LR	K N, L)	21) /MI 6	DA 145)	muicato	ors of hydrology must b	
				ateriai (i	21) (IVIEI	(A 143)	unless	s disturbed or proble	ematic.
Restrictive	Layer (if observed):								
Type:									
Depth (II	nches):						Hydric Soil Preser	nt? Yes	×NO
Remarks:									



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 2/21/23
Applicant/Owner: TDI	State: NY Sampling Point: PSA-GG Wet (PFO)
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	elief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42.664301	Long: <u>-73.934750</u> Datum: <u>WGS84</u>
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification: PFO1
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 distur	oed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? 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 h Red maple hardwood swamp.	nere or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
X Surface Water (A1)	X 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)
X Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (0	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 (B	8)	X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes X	No Depth (inches): 0.5	
Water Table Present? Yes X	No Depth (inches): 0	
Saturation Present? Yes X	No Depth (inches): 0 We	tland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections	s), if available:
Remarks:		

Sampling Point: P5A-GG Wet (PFO)

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet
1 Fravinus pennsylvanica	<u>50</u>	Ves	FACW	Dominance rest worksheet.
2 Phampus cathartica		Vos		Number of Dominant Species
		<u> </u>		$\frac{1}{1}$
3. Acer rubrum 4.		NO		Total Number of Dominant Species Across All Strata: 10 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 90.0% (A/B)
7.				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1. Rhamnus cathartica	30	Yes	FAC	FACW species 85 x 2 = 170
2. Cornus racemosa	15	Yes	FAC	FAC species 105 x 3 = 315
3. Fraxinus pennsylvanica	15	Yes	FACW	FACU species5 x 4 =20
4				UPL species 0 x 5 = 0
5.				Column Totals: 195 (A) 505 (B)
6.				Prevalence Index = B/A = 2.59
7.				Hydrophytic Vegetation Indicators:
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
1. Cornus racemosa	20	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹
2. Toxicodendron radicans	10	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Cornus amomum	10	Yes	FACW	data in Remarks or on a separate sheet)
4. Solidago gigantea	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and watland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Weady plants 3 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sanling/chrub – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb All herbacoous (non woody) plants, regardless
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Weeduning All weeduning greater than 2.29 ft in
1. Celastrus orbiculatus	5	Yes	FACU	height.
2.				
3.				Hydrophytic Manatalian
4.				Vegetation Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet)			

L

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-5	10YR 2/1	100					Mucky Loam/Clay		
5-11	10YR 4/1	80	10YR 2/1	10	c	m	Loamy/Clayey	Faint redox concentrations	
			10YR 5/8	10	c	m		Prominent redox concentrations	
11-17	2.5Y 5/1	50	7.5YR 4/6	30	c	m	Loamy/Clayey	Prominent redox concentrations	
			7.5YR 2.5/3	10	c	m		Prominent redox concentrations	
			10YR 2/1	10	c	m		Prominent redox concentrations	
		. <u> </u>							
¹ Type: C=C	oncentration, D=Dep	letion, RN	I=Reduced Matrix, N	MS=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:			(0-)			Indicators f	or Problematic Hydric Soils":	
Histosol	(A1)		Dark Surface ((\$7)	(00)		2 cm Mi	JCK (A10) (LRR K, L, MLRA 149B)	
	oipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (LRR R,	Coast P	rairie Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3)		MLRA 149E	8)			5 cm Mi	ucky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		Thin Dark Surf	face (S9) (LRR R	, MLRA	149B)Polyvalu	ie Below Surface (S8) (LRR K, L)	
Lagrantified Layers (A5) High Chroma Sands (S11) (LRR K, L)					R K, L)	Thin Dark Surface (S9) (LRR K, L)			
X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L)					R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	ark Surface (A12)		Loamy Gleyed	l Matrix (F2)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)	
Mesic S	podic (A17)		X Depleted Matr	ix (F3)			Red Par	ent Material (F21) (outside MLRA 145)	
(MLR	(MLRA 144A, 145, 149B) Redox Dark Surface (F6)					Very Sh	allow Dark Surface (F22)		
Sandy M	Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)					Other (E	Explain in Remarks)		
Sandy G	Bleyed Matrix (S4)		Redox Depres	sions (F	8)				
Sandy R	Redox (S5)		Marl (F10) (LR	RRK.L	,		³ Indicators of hydrophytic vegetation an		
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MI I	RA 145)	wetlar	ad hydrology must be present	
				atonai (i			unless	s disturbed or problematic.	
Restrictive	Layer (if observed):								
туре.									
Depth (ii	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No	
Remarks:									



Wetland P5A-GG (PFO) - View facing north.



Wetland P5A-GG (PFO) - Soils

Segment 8 – Package 5A

SITE PHOTOGRAPHS

Champlain Hudson Power Express

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 2/21/23
Applicant/Owner: TDI	State: NY Sampling Point: P5A-GG Upl
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace	cal relief (concave, convex, none): <u>None</u> Slope %: <u>0</u>
Subregion (LRR or MLRA): LRR R Lat: 42.663957	Long:73.935163 Datum:WGS84
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly of	listurbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF EINDINGS Attach aits man showing	compling point locations, transports, important features, etc.

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, 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 procedure	s here or in a so	eparate report.)	s for Wetland P5A-GG.
Periodically mowed field. Shared upland	point for the PE	:M and PFO points	

Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface So	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage F	Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim	Lines (B16)		
Saturation (A3)	Marl Deposits (B15)	Dry-Seaso	on Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish B	urrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	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) Geomorph	ic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow A	quitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopog	graphic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	FAC-Neuti	ral 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 Pi	resent? Yes <u>No X</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ons), if available:			
Remarks:					

Sampling Point: P5A-GG Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
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: 33.3% (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 $20 \times 3 = 60$
3.				FACU species 70 x 4 = 280
4.				UPL species 10 x 5 = 50
5.				Column Totals: 100 (A) 390 (B)
6.				Prevalence Index = $B/A = 3.90$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Poa pratensis	45	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Setaria pumila	20	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3 Solidado canadensis	20	Yes	FACU	data in Remarks or on a separate sheet)
4 Daucus carota	10	<u> </u>	UPI	Problematic Hydrophytic Vegetation ¹ (Explain)
5 Taraxacum officinale	5	No	FACU	
6				Indicators of hydric soil and wetland hydrology must
7		·		Definitions of Vegetation Strata:
8				
9.		·		Tree – 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	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		•		Weedy vince All weedy vince greater than 2.29 ft in
1.				height.
2.				
3.				Hydrophytic
4.		·		Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sena	arate sheet)			

SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	iment t	he indica	tor or c	onfirm the absence of	f indicators.)	
Depth	Matrix		Redox	Featur	res				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
	10YR 4/3	95	10YR 6/6	5	C		Loamy/Clayey	Distinct redox co	oncentrations
<u>4-16</u>	10YR 4/4	98	10YR 5/8	2			Loamy/Clayey	Prominent redox	concentrations
							·		
							·		
¹ Type ⁻ C=Co	oncentration D=Dep	letion RM		IS=Mas	ked Sand	Grains	² Location: Pl	I=Pore Lining M=M	atrix
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydr	ic Soils ³
Histosol	(A1)		Dark Surface (S	S7)			2 cm Mu	ck (A10) (LRR K. L.	MLRA 149B)
Histic Fr	pipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (RR R.	Coast Pr	airie Redox (A16) (L	RR K. L. R)
Black Hi	stic (A3)		MI RA 1498	n ouna			5 cm Mu	cky Peat or Peat (S3	
Hydroge	n Sulfide (A1)		Thin Dark Surf	, 200 (SQ		MIDA	149B) Polyvalu	e Below Surface (S8	
Stratifies			Ligh Chroma S	ando (S			Thin Dor		
Stratined	l Layers (A3)	- ((LRI	(\mathbf{R}, \mathbf{L})			
	Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L)								$2) (\mathbf{LRR} \mathbf{R}, \mathbf{L}, \mathbf{R})$
Thick Dark Surface (A12) Loamy Gleyed Matrix (F2)							it Floodplain Solls (F	19) (MLRA 149B)	
Mesic Sp	Mesic Spodic (A17) Depleted Matrix (F3)						Red Pare	ent Material (F21) (or	utside MLRA 145)
(MLR	(MLRA 144A, 145, 149B) Redox Dark Surface (F6)						Very Sha	allow Dark Surface (F	-22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (Ex	xplain in Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F	8)		0		
Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicato	rs of hydrophytic veg	etation and
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLF	RA 145)	wetlan	d hydrology must be disturbed or problem	present, natic
Restrictive I	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Presen	nt? Yes	NoX
Remarks:									
i temano.									
1									



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE City/Co	ounty: New Scotland/Albany Sampling Date: 2/22/23
Applicant/Owner: TDI	State: NY Sampling Point: P5A-HH Wet
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local relief (cc	oncave, convex, none): <u>Concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA): LRR R Lat: 42.663742	Long: <u>-73.935584</u> Datum: <u>WGS84</u>
Soil Map Unit Name: BnB - Burdett silt loam, 3 to 8 percent slopes	NWI classification: PEM1
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? 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 h Common reed marsh.	nere or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	Surface Water (A1) X Water-Stained Leaves (B9)				
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)			
X 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)	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 (B	8)	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes X	No Depth (inches): 10				
Saturation Present? Yes X	No Depth (inches): 0 Wetlar	nd 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: P5A-HH Wet

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
3 4				Total Number of Dominant Species Across All Strata:5(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 = 15
1. Salix alba	15	Yes	FACW	FACW species 100 x 2 = 200
2. Cornus racemosa	5	Yes	FAC	FAC species 10 x 3 = 30
3. Rhamnus cathartica	5	Yes	FAC	FACU species x 4 =0
4				UPL species x 5 =
5				Column Totals: 125 (A) 245 (B)
6				Prevalence Index = B/A =1.96
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. Phragmites australis	60	Yes	FACW	X 3 - Prevalence Index is $≤3.0^1$
2. Onoclea sensibilis	25	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Lythrum salicaria	15	No	OBL	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6				Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
7.				Definitions of Vegetation Strata:
8 9				Tree – 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 and greater than or equal to 3.28 ft (1 m) tall.
12	100	=Total Cover		Herb – 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>)				Woody vines – All woody vines greater than 3.28 ft in height
2.				
3				Hydrophytic
о				Vegetation Present? Ves X No
T		=Total Cover		
Pomarka: (Includo photo numbers have as an a series	rato chaot \			
Remarks. (include proto numbers here of on a sepa	rate sheet.)			

SOIL

Profile Des	cription: (Describe	to the de	pth needed to doc	ument ti	he indica	ator or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es	. 2		
(inches)	Color (moist)	%	Color (moist)		Type'	Loc ²	Texture	Remarks
0-6	10YR 3/2	90	10YR 4/3	10	<u> </u>	<u>m</u>	Loamy/Clayey	Faint redox concentrations
6-17	10YR 5/1	60	7.5YR 5/8	30	<u> </u>	m	Loamy/Clayey	Prominent redox concentrations
			7.5YR 4/6	10	C			Prominent redox concentrations
	· - <u></u>							
17 0.0								
'Type: C=C	oncentration, D=Dep	letion, RN	/I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: F	² L=Pore Lining, M=Matrix.
Hydric Soli			Dark Surface (97)				
Histosol	(AI) ninodon (A2)			SI) W Surfa	co (S8) (rairia Poday ($A16$) (LRR K, L, MLRA 149D)
Black H	pipedon(A2)				ce (00) (Coast 1	icky Peat or Peat (\$3) (IPP K P)
	Subtraction (A3)		Thin Dark Surf	') 'aca (S0'		MIDA		Lo Bolow Surface (S8) (LPR K, L)
Stratified				ace (09) Sanda (9) (LNN N 211) /I DI		Thin Da	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
	d Bolow Dark Surface	o (A11)		Minoral	/E1) (LIN		Iron Mai	$M_{\text{response}}^{\text{response}} (E12) (I PP K I P)$
Thick Da	Thick Dark Surface (A12) Loamy Gleved Matrix (F2)						Piedmor	nt Floodplain Soils (F12) (LKK K, L, K)
Mesic S	Mesic Spodic (A17) X Depleted Matrix (F3)						Red Par	rent Material (F21) (outside MLRA 145)
(MLF	(MLRA 144A, 145, 149B) Redox Dark Surface (F6)					Very Sh	allow Dark Surface (F22)	
Sandy N	/lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Remarks)
Sandy C	Gleyed Matrix (S4)		Redox Depres	sions (F	8)		3	
Stripped	Redox (S5)		Marl (F10) (LR	RK,L)	04) (MAL F	DA 44E)	Indicate	ors of hydrophytic vegetation and
Supped				ateriai (F	21) (IVI L I	XA 145)	unless	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (i	nches):						Hydric Soil Prese	nt? Yes X No
Remarks:								



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 2/22/23
Applicant/Owner: TDI	State: NY Sampling Point: P5A-HH Upi
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local r	elief (concave, convex, none): <u>Convex</u> Slope %: <u>5</u>
Subregion (LRR or MLRA): LRR R Lat: 42.663855	Long: -73.935505 Datum: WGS84
Soil Map Unit Name: BuB - Burdett silt loam, 3 to 8 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes X No X Yes No X X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures Successional old field.	⊧ere or in a separate repo	rt.)

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	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	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)	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	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, mor	nitoring well, aerial photos, previous inspec	ctions), if a	available:		
Remarks:					

Sampling Point: P5A-HH Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Ailanthus altissima</u>	15	Yes	UPL	Number of Dominant Species
2		·		That Are OBL, FACW, or FAC:(A)
3. 4.		·		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:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Lonicera morrowii	5	Yes	FACU	FACW species 0 x 2 = 0
2. Rubus occidentalis	5	Yes	UPL	FAC species x 3 =
3. Populus tremuloides	5	Yes	FACU	FACU species <u>110</u> x 4 = <u>440</u>
4				UPL species x 5 =100
5				Column Totals: 130 (A) 540 (B)
6				Prevalence Index = B/A =4.15
7				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Solidago canadensis	90	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Alliaria petiolata	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Allium schoenoprasum	5	No	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.		·		Definitions of Vegetation Strata:
8.				Trace Weederster 2 in (7.0 err.) er menne in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
12		·		
	100	=Total Cover		Herb – 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>)				Woody vines – All woody vines greater than 3.28 ft in height
2		·		
3				Hydrophytic
		·		Vegetation Present? Ves No X
*				
Remarks. (include proto numbers here of on a sepa	irale sheet.)			

Profile Desc	cription: (Describe	to the dep	oth needed to doc	ument tl	ne indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	100					Loamy/Clayey	
6-11	10YR 5/1	80	7.5YR 4/6	10	C		Loamy/Clayey	Prominent redox concentrations
			7.5YR 5/6	10	C			Prominent redox concentrations
		·						
	oncentration. D=Den	letion. RM	=Reduced Matrix	MS=Mas	ked Sand	Grains		PL=Pore Lining, M=Matrix
Hydric Soil Histosol Histic Ep Black Hi Hydroge Stratified X Depleted Thick Da Mesic S (MLR Sandy M Sandy R Sandy R Stripped	Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) podic (A17) A 144A, 145, 149B) Mucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed): Redox	e (A11) ck	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LR Red Parent Ma	(S7) ow Surfa (S) face (S9) Sands (S Mineral I Matrix (Matrix (ix (F3) urface (F Surface sions (Fa R K, L) aterial (F	ce (S8) () (LRR R 611) (LRI (F1) (LRI F2) (F7) 8) 21) (MLF	LRR R, , MLRA [,] R K, L) R K, L) R A 145)	Indicators f 2 cm Mu Coast P 5 cm Mu Polyvalu ItagB) Polyvalu Iron-Mar Piedmor Red Par Very Sh Other (E ³ Indicato wetlar unless	for Problematic Hydric Soils ³ : Juck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) Jucky Peat or Peat (S3) (LRR K, L, R) Jue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rk Surface (S9) (LRR K, L) inganese Masses (F12) (LRR K, L, R) int Floodplain Soils (F19) (MLRA 149B) rent Material (F21) (outside MLRA 145) allow Dark Surface (F22) Explain in Remarks) fors of hydrophytic vegetation and ind hydrology must be present, is disturbed or problematic.
Depth (ii Remarks	nches):	11					Hydric Soil Prese	nt? Yes <u>X</u> No



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	Sampling Date: <u>11/16/21</u>	
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>FA-1</u>	
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenectady</u>		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):	
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.66320</u>	Long: <u>-73.93409</u>	Datum: <u>NAD83</u>	
Soil Map Unit Name:	NWI classifi	cation: PFM	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🔣 No 🔲 (If no, explain in f	Remarks.)	
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	ntly disturbed? Are "Normal Circumstances"	present? Yes 🔀 No 🗌	
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain 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? Wetland Hydrology Present?	Yes X No Yes X No Yes No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Wetland EA	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)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Qxidized Rhizospheres on Living	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 📃 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 🔛 No 🛄 Depth (inches): 1	
Water Table Present? Yes X No Depth (inches): 6	
Saturation Present? Yes X No Depth (inches): _{Surface}	Wetland Hydrology Present? Yes 🗵 No 🗌
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes X No I ctions), if available: Stions <
Saturation Present? Yes <u>No</u> Depth (inches): _{surface} (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No C
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes X No C
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes X No
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> to C
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes X No L Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> to C
Saturation Present? Yes X Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> to C
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> to C
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> C
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> to C
Saturation Present? Yes X No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> to C

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominar	nt Indicator	Dominance Test worksheet:
1	<u>_/// Cover</u> _			Number of Dominant Species
2				That Are OBL, FACW, of FAC: <u>3</u> (A)
2			J	Total Number of Dominant
3				(b)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
5				(**_)
6		-		Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
		= Total Co	over	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
1. <u>Lonicera spp.</u>	30	YES	FACU -	FAC species X 3 =
2. <u>Cornus alba</u>	30	YES 🔽	FACW	PACO species x 4 - UPL species x 5 =
3		-		Column Totals: (A) (B)
4		-	<u> </u>	(i) <u>(i)</u>
5			<u> </u>	Prevalence Index = B/A =
6		-	-	Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation
		= Total Co	over	⊻ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5				☐ 3 - Prevalence Index is ≤3.0 ¹
1 Onoclea sensibilis	10	YES		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2 Luthrum salicaria	20			Problematic Hydrophytic Vegetation ¹ (Explain)
2. Lythum sailcana				
3				be present, unless disturbed or problematic.
4			:	Definitions of Vegetation Strata
5				
6		-		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7		-		
8	. <u> </u>	-		and greater than or equal to 3.28 ft (1 m) tall.
9				Harb All harbaceous (non woody) plants regardless of
10		-		size, and woody plants less than 3.28 ft tall.
11	<u> </u>	-	<u> </u>	Woody vines – All woody vines greater than 3.28 ft in
12		-		height.
	100	= Total Co	over	
Woody Vine Stratum (Plot size: <u>30</u>)				
1				
2		-		Hydrophytic Vegetation
3				Present? Yes X No
4			<u>-</u>	
		= Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Depth	Matrix	to the de	Redc	ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR/3/1	60	10yr/5/6	40			SICL	Prominent redox
					- <u>-</u>	 -		
					· <u> </u>			
		<u> </u>			. <u>-</u>	<u>-</u>		
					· <u>· </u>			
					<u> </u>	-		·
		<u> </u>			· <u>·</u>			
					·			
$\frac{1}{1}$ Type: C=C	oncentration D=Der	letion RM		S=Maske	d Sand Gr	- ains	² Location	n: PI =Pore Lining M=Matrix
Black H Black H Hydrogo Stratifie Deplete Thick D Sandy N Sandy R Stripped Dark Su	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) (LRR R, I	e (A11) MLRA 149 tion and w	Thin Dark Surfa Thin Dark Surfa Loamy Mucky I Depleted Matrix Redox Dark Su Depleted Dark Redox Depress B (B)	y ace (S9) (Mineral (F Matrix (F2 x (F3) urface (F6) Surface (I sions (F8) st be pres	LRR R, M 1) (LRR K 2)) F7) ent, unles:	LRA 149B) Coasi 5 cm l Dark 9 Polyva Thin I Iron-M Piedrr Mesic Red F Very 9 Other	Mucky Peat or Peat (S3) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) c.
Restrictive Type: Depth (in	Layer (if observed)	:	_	-			Hydric Soi	l Present? Yes 🛛 No 🗌
Remarks:								



Wetland EA - View facing south.

Segment 8 – Package 5A

SITE PHOTOGRAPHS

Champlain Hudson Power Express



Wetland EA – Soils

SITE PHOTOGRAPHS

Phase 5

Champlain Hudson Power Express

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: Schene	otady	Sampling Date: 11/16/2021
Applicant/Owner: CHA		State: NY	Sampling Point: EA-17 Upland
Investigator(s): Nick Dominic/Justin Williams			
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, conve	<, none):	Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 14	4B Lat: 42.65920 Long:	-73.93151	Datum: NAD83
Soil Map Unit Name:		NWI classification:	Upland
Are climatic / hydrologic conditions on the site ty	ypical for this time of year? Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	egysignificantly disturbed? Are "Norm	al Circumstances" prese	ent? Yes No
Are Vegetation, Soil, or Hydrolo	ogynaturally problematic? (If needed	, explain any answers ir	n Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sampling point locati	ons, transects, im	portant features, etc.

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

HYDROLOGY

Г

Wetland Hydrology Indica	ators:				Secondary Indicators (min	nimum of two required)	
Primary Indicators (minimu	m of one is req	uired; check all	that apply)		Surface Soil Cracks (I	36)	
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B ²	10)	
High Water Table (A2)		Aquatio	c Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)		Marl De	eposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrog	en Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2	:)	Oxidize	ed Rhizospheres on Living I	Roots (C3)	oots (C3) Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Presen	ce of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	I	Recent	Iron Reduction in Tilled Sc	ls (C6) Geomorphic Position (D2)			
Iron Deposits (B5)		 Thin M	uck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on A	erial Imagery (B7) Other (Explain in Remarks)		Microtopographic Reli	ief (D4)	
Sparsely Vegetated Co	ncave Surface	(B8)			FAC-Neutral Test (D5	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):	Wetlar	nd Hydrology Present?	Yes No X	
(includes capillary fringe)							
Describe Recorded Data (s	tream gauge, r	monitoring well,	aerial photos, previous insp	pections), if	available:		
Remarks:							

Sampling Point: EA-17 Upland

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus stobus	40	Yes	FACU	Number of Dominant Species
2. Fagus grandifolia	30	Yes	FACU	That Are OBL, FACW, or FAC:(A)
3 4				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Lonicera spp.	40	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 30 x 3 = 90
3.				FACU species 140 x 4 = 560
4.				UPL species $0 \times 5 = 0$
5				Column Totals: 170 (A) 650 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydrophytia Vagatation Indicatora
/		-Tatal Oauar		Denid Test for Undersky tic Venetation
	40	= I otal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Solidago sp.	30	Yes	FAC	3 - Prevalence Index is ≤3.0'
2. Taraxacum officinale.	30	Yes	FACU	4 - Morphological Adaptations' (Provide supporting
3				data in Remarks of on a separate sneet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				The Manda Later Oin (7.0 mm) and an in
9.				line – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
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: 30)				Woody vines – All woody vines greater than 3.28 ft in
1.				neight.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

	Matrix		Redox	Featu	res	<u> </u>		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10yr 5/2	100					Loamy/Clayey	
6-12	10vr 3/1	100					Loamv/Clavev	
							2001.19/010909	· · -
						·		·
		<u> </u>						
		<u> </u>				·		
						·		
		<u> </u>						
1 <u>.</u>		Lation DM	- Deduced Matrix M			<u> </u>	² Leastion	D - Data Lining M-Matrix
Hydric Soil Ir	ncentration, D-Dep	ietion, Rivi	-Reduced Matrix, IV	15-10185	skeu Sanu	Grains.		FL-Pore Lining, M-Matrix.
Histosol (A1)		Polyvalue Belov	w Surfa	ce (S8) (L	.RR R.	2 cm l	Muck (A10) (LRR K. L. MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B))		,	Coast	Prairie Redox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Surfa	ace (S9) (LRR R ,	MLRA 1	49B) 5 cm l	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	n Sulfide (A4)		High Chroma S	ands (S	611) (LRR	K, L)	Polyva	alue Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	Mineral	(F1) (LRF	κ, L)	Thin E	Dark Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix ((F2)		Iron-M	langanese Masses (F12) (LRR K, L, R)
Thick Dar	rk Surface (A12)		Depleted Matrix	(F3)			Piedm	ont Floodplain Soils (F19) (MLRA 149E
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	rface (F	=6)		Mesic	Spodic (TA6) (MLRA 144A, 145, 149B
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red P	Parent Material (F21)
Sandy Re	edox (S5)		Redox Depress	sions (F	8)		Very S	Shallow Dark Surface (F22)
Stripped i	Malrix (50)		Mari (F10) (LKI	K N , L)			Other	(Explain in Remarks)
	ace (37)							
³ Indicators of	hvdrophytic vegetat	ion and w	etland hydrology mu	ist be p	resent. un	less dist	urbed or problemati	c.
Restrictive L	ayer (if observed):				,			
Type:								
Depth (ind	ches):						Hydric Soil Pres	sent? Yes No X
	·						-	



Upland EA - View facing south.

SITE PHOTOGRAPHS

Segment 8 – Package 5A

Champlain Hudson Power Express



Upland EA – Soils

SITE PHOTOGRAPHS

Phase 5

Champlain Hudson Power Express

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Champlain H	ludson Express		City/Coun	ty: <u>Albany</u>	Sampling Da	te: November 16, 2021
Applicant/Owner: <u>CHA</u>			State:	NY	Sampling Poir	nt: DP-AM
Investigator(s): Tristen Pete	rson		Section, To	wnship, Range: V	oorheesville	
Landform (hillslope, terrace, etc.)	Depressio	n	Local relief	(concave, convex, none	e): Concave	Slope (%): 1
Subregion (LRR or MLRA):	LRR R		Lat: 42.656738°	°N Long: -7	′3.930101°W	Datum: NAD83
Soil Map Unit Name: <u>Uk - Udo</u>	rthents, Ioamy-U	Irban land complex			NWI classification:	lot Mapped
Are climatic / hydrologic condition	s on the site typi	cal for this time of ye	ar? Yes	X No	(If no, explain in Remarks.)	
Are Vegetation, Soil	, or Hydro	ologysign	ificantly disturbed	? Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation, Soil	, or Hydro	ologynatu	rally problematic?	(If needed	explain any answers in Remark	ks.)
SUMMARY OF FI	NDINGS – A	ttach site map s	showing sam	pling point location	ons, transects, importa	nt features, etc.
Hydrophytic Vegetation Presen	1?	Yes X No		Is the Sampled Area		
Hydric Soil Present?		Yes X No		within a Wetland?	Yes X N	o
Wetland Hydrology Present?		Yes X No		If yes, optional Wetland	d Site ID: <u>AM</u>	
Identified as Wet	and FA-A	M on wetlan	d mapping	and in report	text.	
Wetland Hydrology Indicators	6:				Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of	one is required;	check all that apply)			Surface Soil Cracks (I	36)
Surface Water (A1)		Water-	Stained Leaves (E	39)	X Drainage Patterns (B	10)
X High Water Table (A2)		Aquatio	c Fauna (B13)		Moss Trim Lines (B16	i)
X Saturation (A3)		Marl D	eposits (B15)		Dry-Season Water Ta	ble (C2)
Water Marks (B1)		X Hydrog	jen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidize	ed Rhizospheres o	on Living Roots (C3)	Saturation Visible on	Aerial Imagery (C9)
Drift Deposits (B3)		Preser	ice of Reduced Irc	on (C4)	Stunted or Stressed F	Plants (D1)
Algal Mat or Crust (B4)		Recent	t Iron Reduction in	n Tilled Soils (C6)	K Geomorphic Position	(D2)
Iron Deposits (B5)		Thin M	uck Surface (C7)	l)	Shallow Aquitard (D3)	
Sparsely Vegetated Conc	ai imagery (B7)		Explain in Remari	ks)	EAC Neutral Test (D5	
Operative vegetated conte)
Surface Water Present?	Yes X	No Depth	(inches): 1			
Water Table Present?	Yes X	No Depth	(inches): 1	Wetla	nd Hydrology Present? Y	es X No
Saturation Present?	Yes X	No Depth	(inches): 1		,,	<u> </u>
(includes capillary fringe)		·	. ,			
Describe Recorded Data (strea	m gauge, monito	oring well, aerial photo	os, previous inspe	ctions), if available:		
Remarks:						
Remarks.						
I						

VEGETATION - Use scientific na	ames of plants.
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Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Populus deltoides	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	6 (A)
2.					(',')
3.				Total Number of Dominant Species Across All Strata:	7 (B)
				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC:	<u>85.7</u> (A/B)
6					
7			·	Prevalence Index worksheet: Total % Cover of:	Multiply by:
	10	= Total Cover		OBL species 15	x 1 = 15
Sanling/Shrub Stratum (Plot size: 15 ft)				FACW species 55	$x_2 = 110$
1 Salix discolor	15	Ves	EAC/W	FAC species 10	x 3 = <u>30</u>
	15	Vee		FACU species 5	x 4 = 20
		res		UPL species 0	x 5 = <u>0</u>
	20	Yes	FACW	Column Totals: 85	(A) <u>175</u> (B)
4				Dravelance Index = D/A =	2.05
5			. <u> </u>		2.05
6			·	Hydrophytic Vegetation Indicat	ors:
7			·	X 2 - Dominance Test is >50%	
	50	= Total Cove	r	\times 3 - Prevalence Index is \leq 3.0	1
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptatio	ns ¹ (Provide supporting
1Lythrum salicaria	15	Yes	OBL	data in Remarks or on a	separate sheet)
2 Cornus alba	5	Yes	FACW	Problematic Hydrophytic Ve	getation ¹ (Explain)
3. Solidago canadensis	5	Yes	FACU	¹ Indicators of hydric soil and wet	and hydrology must
				be present, unless disturbed or p	roblematic.
5.				Definitions of Vegetation Strata	a:
6				Tree – Woody plants 3 in (7.6 cr	n) or more in diameter
7			·	at breast height (DBH), regardles	s of height.
8			·	Sanling/shrub - Woody plants l	es than 3 in DBH
·			·	and greater than or equal to 3.28	ft (1 m) tall.
9				Herb – All herbaceous (non-woo	dv) plants, regardless of
10			·	size, and woody plants less than	3.28 ft tall.
11				Woody vines – All woody vines g	preater than 3.28 ft in
12			·	height.	
	25	= Total Cove	r		
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3.				Present? Yes	X No
4.					
	0	= Total Cov	≏r		
Remarks: (Include nhoto numbers here or on a senarate sheet)	0	10101-001			
Remarks. (modde proto numbers nere of on a separate sneet.)					

SOIL

(inches) Color (m)-8 10YR 3-20 10YR 3-20 10YR	noist) % 3/1 70 5/3 65	Color (moist)7.5YR 5/67.5YR 5/67.5YR 5/6	% Type1 30 C 35 C	Loc ² M M 	Texture Remarks Clay	<u>S</u>
-8 10YR -20 10Y	3/1 70 5/3 65	7.5YR 5/6	30 C	M	Clay	
20 10YR	5/3 65	7.5YR 5/6	35 C	M	Clay	
Type: C=Concentration, De ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A1) Sandy Mucky Mineral	=Depletion, RM=Re					
ype: C=Concentration, D: rdric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A1) Sandy Mucky Mineral	=Depletion, RM=Re	educed Matrix, MS=Maske				
ype: C=Concentration, De dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re					
ype: C=Concentration, D dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	educed Matrix, MS=Maske	ed Sand Grains.			
ype: C=Concentration, De dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re					
ype: C=Concentration, D dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	educed Matrix, MS=Maske	ed Sand Grains.			
ype: C=Concentration, D: dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re					
ype: C=Concentration, D dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	educed Matrix, MS=Maske	ed Sand Grains.		2	
/pe: C=Concentration, D dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	duced Matrix, MS=Maske	ed Sand Grains.			
/pe: C=Concentration, D: dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	educed Matrix, MS=Maske Polyvalue Below	ed Sand Grains.		2	
/pe: C=Concentration, D dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	duced Matrix, MS=Maske	ed Sand Grains.		2	
ype: C=Concentration, D: dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral	=Depletion, RM=Re	educed Matrix, MS=Maske	ed Sand Grains.		2	
dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral		Polyvalue Below			² Location: PL=Pore Lining, M=Matrix	х.
Histosof (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral			Surface (S8) (I PP P		Indicators for Problematic Hydric Sec. 2 cm Muck (A10) (LBP K J MU	oils ³ : PA 149B)
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral		MLRA 149B)			Coast Prairie Redox (A16) (LRR	K, L, R)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral		Thin Dark Surfac	ce (S9) (LRR R, MLRA 14	9B)	5 cm Mucky Peat or Peat (S3) (L	.RR K, L, R)
Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A Sandy Mucky Mineral		Loamy Mucky M	lineral (F1) (LRR K, L)		Dark Surface (S7) (LRR K, L, M)	
Thick Dark Surface (A Sandy Mucky Mineral	Surface (A11)	Loamy Gleyed M	Matrix (F2) (F3)		Polyvalue Below Surface (S8) (LI	RR K, L)
Sandy Mucky Mineral	12)	X Redox Dark Sur	face (F6)		Iron-Manganese Masses (F12) (I	–/ LRR K, L, R)
	(S1)	Depleted Dark S	Surface (F7)		Piedmont Floodplain Soils (F19)	(MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Depression	ions (F8)		Mesic Spodic (TA6) (MLRA 1444	 145, 149B)
Sandy Redox (S5)					Red Parent Material (F21)	2)
Dark Surface (S7) (LR	R R, MLRA 149B)				Other (Explain in Remarks)	.)
_						
dicators of hydrophytic ve	egetation and wetla	and hydrology must be pre	esent, unless disturbed or	problematic.		
strictive Layer (if obser	ved):					
Depth (inches):		—			Hydric Soil Present? Yes X	(No
marks:						

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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express	City/County:	Albany		Sampling Date:	November 16, 2021
Applicant/Owner:	СНА		State:	NY		Sampling Point:	DP-AM-Upland
Investigator(s):	Tristen Peterson		Section, Town	ship, Range:	Voorheesville		
Landform (hillslope,	, terrace, etc.):	Hillslope	Local relief (co	oncave, convex, no	ne): <u>None</u>		Slope (%): 1
Subregion (LRR or	MLR <u>A):</u>	LRR R	Lat: 42.656698°N	Long:	-73.930135°W		Datum: NAD83
Soil Map Unit Name	e: <u>Uk - Udorther</u>	ts, loamy-Urban land complex			NWI clas	sification: Not N	lapped
Are climatic / hydrol	logic conditions on	the site typical for this time of yea	ar? Yes	X No	(If no, explain i	in Remarks.)	
Are Vegetation	, Soil	, or Hydrologysignif	icantly disturbed?	Are "Nor	mal Circumstances'	" present?	Yes X No
Are Vegetation	, Soil	, or Hydrologynatur	ally problematic?	(If neede	ed, explain any answ	/ers in Remarks.)	
SUMM#	ARY OF FINDI	NGS – Attach site map s	howing sampli	ing point loca	tions, transect	s, important f	eatures, etc.
		Yes No.	X Ia	the Sompled Area			
Hydrophylic Vege	ation Present?	Yes No		ithin a Wetland?	a Yes_	No	x
Wetland Hydrolog	gy Present?	Yes No	X If	yes, optional Wetla	and Site ID:		
Remarks: (Explain Upland Data Po	alternative procedu vint Wetland AM,	adjacent to Foundary Road a	and Railroad track	s, located on ma	aintained grass ar	ea	

Shared upland data point for Wetlands AM and AK.

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 I	ron (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 Rema	rks) 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 insp	ections), if available:
Remarks:	
No wetland hydrology present at data point	

VEGETATION -	Use	scientific	names	of	plants.
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Sampling Point: <u>DP-AM-Upland</u>

Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test	t worksheet:			
1				Number of Domin	nant Species		0	(•)
·				That Are OBL, F	ACVV, OF FAC:		0	_(A)
2				Total Number of	Dominant			
S				Species Across A	All Strata.		I	_(B)
4				Percent of Domin	ant Species		0	
5				That Are OBL, PA	ACVV, OF FAC.		0	(A/B)
6				Prevalence Inde	x worksheet:			
7				Total % Cov	/er of:	M	ultiply by:	
	0	= 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	
2				FACU species	100	x 4 =	400	
3.				UPL species	0	x 5 =	0	
				Column Totals:	100	(A)	400	(B)
5.				Prevalence	e Index = B/A =	4		
6				Hydrophytic Ve	netation Indicat	tors:		
7				1 - Rapid Te	est for Hydrophy	rtic Vege	tation	
				2 - Dominar	nce Test is >50%	6		
	0	= Total Cover		3 - Prevaler	nce Index is ≤3.0) ¹		
Herb Stratum (Plot size: 5 ft.)				4 - Morpholo data in F	ogical Adaptatio Remarks or on a	ns ' (Pro useparati	vide supportii e sheet)	ng
1. Lolium perenne	90	Yes	FACU			ooparat		
2. Trifolium pratense	10	No	FACU	Problematic	Hydrophytic Ve	egetation	¹ (Explain)	
3				¹ Indicators of hyd	dric soil and wet	land hyd	rology must	
4				be present, unles	ss disturbed or p	roblema	tic.	
5				Definitions of V	antation Strat	. .		
0				Denniciona or V	eyetation Strate	а.		
6.				Tree – Woody pl	ants 3 in. (7.6 cr	n) or mo	re in diamete	r
6 7.				Tree – Woody pl at breast height (ants 3 in. (7.6 cr DBH), regardles	a. m) or mo ss of heig	re in diamete ght.	r
6 7 8.				Tree – Woody pl at breast height (Sapling/shrub –	ants 3 in. (7.6 cr DBH), regardles Woody plants le	n) or mo ss of heig ess than	re in diamete ght. 3 in. DBH	r
6 7 8				Tree – Woody pl at breast height (Sapling/shrub – and greater than	ants 3 in. (7.6 cr DBH), regardles Woody plants le or equal to 3.28	m) or mo ss of heig ess than s ft (1 m)	re in diamete ght. 3 in. DBH tall.	r
6 7 8 9				Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herba	ants 3 in. (7.6 or DBH), regardles Woody plants le or equal to 3.28 ceous (non-woo	n) or mo ss of heig ess than ft (1 m) dy) plant	re in diamete ght. 3 in. DBH tall. ts, regardless	r of
6 7 8 9 10				Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbar size, and woody	ants 3 in. (7.6 cr DBH), regardles Woody plants la or equal to 3.28 ceous (non-woo plants less than	n) or mo ss of heig ess than 6 ft (1 m) dy) plant 3.28 ft ta	re in diamete ght. 3 in. DBH tall. ts, regardless all.	r of
6 7 8 9 10 11				Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – A	ants 3 in. (7.6 cr DBH), regardles Woody plants lo or equal to 3.28 ceous (non-woo plants less than	n) or mo ss of heig ess than t (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. nan 3.28 ft in	r of
6 7 8 9 10 11 12				Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – A	ants 3 in. (7.6 or DBH), regardles Woody plants le or equal to 3.28 ceous (non-woo plants less than All woody vines g	n) or mo ss of heig ess than ft (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. nan 3.28 ft in	r
6 6 7 8 9 10 11 12		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbau size, and woody Woody vines – / height.	ants 3 in. (7.6 cr DBH), regardles Woody plants lo or equal to 3.28 ceous (non-woo plants less than All woody vines g	n) or mo ss of heig ess than ft (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. han 3.28 ft in	of
6 7 8 9 10 11 12 Woody Vine Stratum (Plot size: 30 ft.)		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height.	ants 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	n) or mo ss of heig ess than i ft (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. han 3.28 ft in	of
6		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbar size, and woody Woody vines – / height.	ants 3 in. (7.6 cr DBH), regardles Woody plants lo or equal to 3.28 ceous (non-woo plants less than All woody vines g	a. n) or mo ss of heig ess than i ft (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. nan 3.28 ft in	of
6		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height.	ants 3 in. (7.6 cr DBH), regardles Woody plants lo or equal to 3.28 ceous (non-woo plants less than All woody vines o	n) or mo ss of heig ess than i ft (1 m) dy) plant 3.28 ft tr greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. nan 3.28 ft in	of
6		 = Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	All woody vines of the second strategy of the	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. han 3.28 ft in	of
6		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	All woody vines of the second strategy of the	n) or mo ss of heig ess than t (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. nan 3.28 ft in	of
6		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	All woody vines of the second strategy of the	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. ts, regardless all. nan 3.28 ft in	of
6	 	= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. han 3.28 ft in	of
6.		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbau size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo ss of heig ess than t (1 m) dy) plant 3.28 ft tr greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. nan 3.28 ft in	of
6.		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo as of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. han 3.28 ft in	of
6.		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. han 3.28 ft in	of
6.		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbad size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. nan 3.28 ft in	of
6.		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo as of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. han 3.28 ft in	r of
6.		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbac size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft ta greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. han 3.28 ft in	r of
6		= Total Cover		Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herbar size, and woody Woody vines – / height. Hydrophytic Vegetation Present?	Yes	n) or mo ss of heig ess than ift (1 m) dy) plant 3.28 ft tr greater th	re in diamete ght. 3 in. DBH tall. is, regardless all. nan 3.28 ft in	r of

L
ches) Color (molst) % Color (molst) % Type ¹ Loc ² Texture Remarks 10YR 3/2 100 Sit Loem Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 100 Sit Loem Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 100 Sit Loem Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 100 Gravel refuel Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 100 Gravel refuel Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 100 Gravel refuel Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 Train Section Figure 1 Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 Gravel refuel Gravel refuel Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 Train Gravel refuel Gravel refuel Gravel refuel Gravel refuel 10YR 3/2 Train Gravel refuel Gravel refuel Gravel refuel Gravel refuel 111 Depleted Vark VMS </th <th>epth Matrix</th> <th>Redox Features</th> <th></th> <th></th>	epth Matrix	Redox Features		
10/R 32 100 St Loam Creat reluted Image: Image	ches) Color (moist) %	Color (moist) % Type ¹ Lo	cc ² Texture	Remarks
Depleted Detw Dark Surface (S3) (LRR K, L, R) Depleted Detw Dark Surface (S3) (LRR K, L, R) Startified Layers (A5) Depleted Detw Dark Surface (S3) Startified Layers (A5) Depleted Detw Dark Surface (S3) Startified Layers (A5) Sandy Mucky Mineral (S1) Depleted Detw Dark Surface (R3) Sandy Mucky (S6) Sandy Mucky (S6) Sandy Mucky (S6) Sandy Mucky (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Kast under (S7) Matrix (S6) Dark Surface (S7) Piedmont Floodplain Soils (F19) (MLRA 143B) Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mucky Mineral (S1) Depleted Dark Surface (F7) Sing Pedox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Kasturdae (S7) (LRR R, MLRA 149B) Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) More X- Mat	10YR 3/2 100		Silt Loam	Gravel refusal
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix, is Soil Indicators: –––––––––––––––––––––––––––––				
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. its coil indicators: Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histics Dipledon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, L, R) Strattified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy MLexy Mineral (S1) Depleted Matrix (F3) Sandy Meday Matrix (S4) Redox Depressions (F6) Sandy Meday Matrix (S4) Redox Depressions (F6) Sandy Gleyed Matrix (S6) Redox Depressions (F6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Strates corphylic vegetation and welland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes YPer No X arks:: mesic spoint could not dig past 8 inches due to gravel refusal				
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. is Soil Indicators: Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils ³ : Aut A149B) Sond Muck (A10) (LRR K, L, MLRA 149B) Sond Muck (A10) (LRR K, L, R, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S1) (LRR K, L, R) Startified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S1) (LRR K, L, R) Sond Mucky Mineral (S1) Depleted Matrix (F3) Sondy Mucky Mineral (S1) Depleted Matrix (F6) Sandy Gleyed Matrix (S4) Redox Depressions (F6) Red ox Depressions (F6) Red Sord CrA6) (MLRA 144B) Sandy Gleyed Matrix (S6) Dark Surface (S1) (LRR K, L, R) Piedmont Floodplain Solids (F19) (MLRA 144B, 145, 149B) Sandy Mucky Mineral (S1) Depleted Matrix (S6) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6) Surface (S1) (LRR K, MLRA 149B) Sands Mucky Mineral (S1) Depleted Depressions (F6) Hydric Soil Present? Yes No X arks: arks: arks is and so point, could not dig past 8 inches due to gravel refusal				
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ic Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils ³ : Thin Dark Surface (S9) (LRR K, L, R) S cm Muck (A10) (LRR K, L, MLRA 149B) S cm Muck (A10) (LRR K, L, MLRA 149B) S cm Muck (A10) (LRR K, L, M) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Surface (S9) (LRR K, L) Depleted Below Surface (A11) Depleted Below Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Dark Surface (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S5) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6)				
E: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. E: C=Concentration, D=Depletion, RM=Reduced Matrix, R, L, R) Depletied Balow Dark Surface (S9) (LRR K, L, R) Depletied Matrix (F2) Depletied Matrix (F2) Redox Dark Surface (F6) Iton=Marganese Masses (F12) (LRR K, L, R) Peidmont Floodplain Soils (F19) (MLRA 144R, 145, 149B) Sandy Mucky Mineral (S1) Depletied Dark Surface (F7) Redox Dark Surface (F6) Red Parent Material (F21) Very Shallow Dark Surface (F19) Matrix 1449, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ::ators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. retive Layer (If observed): ype: Nne implement (inches)				
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. is Soil Indicators: Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Back Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) S cm Muck (A10) (LRR K, L, R) Back Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (F6) Stratified Layers (A5) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) 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 144B, 145, 149B) Sandy Gleyed Matrix (S6) Were Core (F12) Other (Explain in Remarks) Jators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators (F12) wrise: Intervention: a memory of the soils present? Yes No X wrise: Interv				
a: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : Hitstosel (A1) Polyvalue Below Surface (S8) (LRR R, Hitstosel (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Strattlide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Strady Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Gleyed Matrix (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA 149B) Redox Depressions (F8) Autrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes No X				
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histos (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Indicators for Problematic Hydric Soils ³ : Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thin Dark Surface (S9) (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) Red Parent Material (F21) Stripped Matrix (S6) Redox Depressions (F8) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Price (Lagna in Remarks) cators of hydrophytic vegetation and wetland hydrology must be graver refusal Hydric Soil Present? Yes No X price:				
ric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histo Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) S om Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (F6) Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Medox Depressions (F8) Medox Part Surface (TF12) Stripped Matrix (S6) Other (Explain in Remarks) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No X arks: rdris surface sur	e: C=Concentration, D=Depletion, RM=Rec	duced Matrix, MS=Masked Sand Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil Present? Yes No X harks: ydric soils present at data point, could not dig past 8 inches due to gravel refusal No X	Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	 Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149E Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) 	2 cm Coas 3) 5 cm Dark Polya Thin Iron- Piedr	Muck (A10) (LRR K, L, MLRA 149B) tt Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M) value Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) mont Floodplain Soils (F19) (MLRA 149B)
arks: dric soils present at data point, could not dig past 8 inches due to gravel refusal	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) cators of hydrophytic vegetation and wetlar rictive Layer (if observed):	Redox Depressions (F8)	Mesi Red Very Othe	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Tripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetlar strictive Layer (if observed): Type: None Depth (inches): 8	Redox Depressions (F8)	Mesi Red Very Othe 	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of hydrophytic vegetation and wetlar trictive Layer (if observed): Type: <u>None</u> Depth (inches): 8 Tarks: ydric soils present at data point, could not dig past	Redox Depressions (F8)	Mesi Red Very Othe	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of hydrophytic vegetation and wetlar trictive Layer (if observed): Type: <u>None</u> Depth (inches): 8 harks: ydric soils present at data point, could not dig past	Redox Depressions (F8)	Mesi Red Very Othe	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of hydrophytic vegetation and wetlar trictive Layer (if observed): Fype: <u>None</u> Depth (inches): 8 irarks: ydric soils present at data point, could not dig past	Redox Depressions (F8)	blematic.	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) cators of hydrophytic vegetation and wetlar rictive Layer (if observed): Type: <u>None</u> Depth (inches): 8 arks: rdric soils present at data point, could not dig past	Redox Depressions (F8)	blematic.	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) cators of hydrophytic vegetation and wetlar ritctive Layer (if observed): Type: <u>None</u> Depth (inches): 8 arks: /dric soils present at data point, could not dig past	Ad hydrology must be present, unless disturbed or pro	Hydric Soi	c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)



Proiect/Site: Champlain Huds	son Express	City/Cour	ntv: Albanv	Sampling Date:	November 16, 2021
Applicant/Owner: CHA		State:	NY	Sampling Point:	DP-AK
Investigator(s): Tristen Petersor		Section T	ownship Range: Voorheesv	ille	
Landform (billslope, terrace, etc.):	Depression		f (conceve, convex, none):		Slope (%): 1
Subregion (LRR or MLRA):		Lat: 42.656513	^{3°} N Long: -73.929950)*W	Datum: NADO3
Soil Map Unit Name: Uk - Udorthe	ents, loamy-Urban land com	nplex		NWI classification: Not N	/lapped
Are climatic / hydrologic conditions or	n the site typical for this time	e of year? Yes	X No (If no,	explain in Remarks.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbed	1? Are "Normal Circum	stances" present?	Yes X No
Are Vegetation, Soil	, or Hydrology	naturally problematic	? (If needed, explain a	any answers in Remarks.)	
SUMMARY OF FIND	INGS – Attach site r	map showing sarr	pling point locations, tra	ansects, important f	leatures, 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:	AK	
Identified as Wetla	nd FA-AK on we	etland mapping	g and in report text.]	
HYDROLOGY					
Wetland Hydrology Indicators:			S	econdary Indicators (minin	num of two required)
Primary Indicators (minimum of one	s is required; check all that	apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	<u> </u>	Water-Stained Leaves (B9) <u>X</u>	Drainage Patterns (B10)	
K High Water Table (A2)	<u> </u>	Aquatic Fauna (B13)	—	Moss Trim Lines (B16)	(00)
X Saturation (A3)	<u> </u>	Mari Deposits (B15)		Dry-Season water Table ((C2)
Sediment Deposits (B2)		Ovidized Rhizospheres	on Living Roots (C3)	Seturation Visible on Aeria	al Imagery (C.9)
Drift Deposits (B3)		Presence of Reduced Ir	ron (C4)	Stunted or Stressed Plant	s (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction i	n Tilled Soils (C6) X	Geomorphic Position (D2))
Iron Deposits (B5)	·	Thin Muck Surface (C7))	Shallow Aquitard (D3)	
Inundation Visible on Aerial Im	nagery (B7)	Other (Explain in Remai	rks)	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 X No	Depth (inches): 7	Wetland Hydro	ology Present? Yes	<u>X</u> No
Saturation Present?	Yes X No	Depth (inches): 6			
Describe Recorded Data (stream g	auge, monitoring well, aeria	al photos, previous inspe	ections), if available:		
Remarks:					

VEGETATION -	Use scient	tific names o	of plants.
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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: 3 (A)
2.				
3.				Species Across All Strata:4 (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 75 (A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
	0	= Total Cover		OBL species <u>35</u> x 1 = <u>35</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>35</u> x 2 = <u>70</u>
1. <u>Cornus alba</u>	20	Yes	FACW	FAC species 0 x 3 = 0
2. Cornus amomum	15	Yes	FACW	FACU species 15 $x 4 = 60$
3				UPL species 0 $x_5 = 0$ Column Totals: 85 (A) 145 (B)
4				
5				Prevalence Index = B/A = 1.70
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	35	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is <3 0 ¹
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide supporting
1. Lythrum salicaria	35	Yes	OBL	data in Remarks or on a separate sheet)
2. Rubus idaeus	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Oenothera biennis	5	No	FACU	¹ 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.
	50	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				
2				Hydrophytic
2				Vegetation X V
3				Present? Yes <u>~</u> No
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)				

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Computing	Deinte	
Sampling	FUIL.	

(inches)	Matrix	·	Redox	Features			,	
(incries)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/1	100					Silty Clay Loam	
4-20	10YR 5/1	100					Clay Loam	
	1011(0)1			·			Oldy Loann	
		.						
				<u> </u>				
		·						
17							21	n Linin - Markatain
Type: C=Con	centration, D=Depletion	i, RM=Reduc	ced Matrix, MS=Masked	a Sand Grains	6.		-Location: PL=Po	re Lining, M=Matrix.
Hydric Soil In Histosol (idicators: (A1)		Polyvalue Below	Surface (S8)	LRR R.		2 cm Muck (A1	lematic Hydric Soils": (0) (LRR K. L. MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B)		(,		Coast Prairie F	Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surface	e (S9) (LRR F	R, MLRA 1	49B)	5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Mucky Mi	neral (F1) (LR	RK,L)		Dark Surface (S7) (LRR K, L, M)
Stratified	Layers (A5)		Loamy Gleyed M	atrix (F2)			Polyvalue Belo	w Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	11)	Depleted Matrix (F3)			Thin Dark Surf	ace (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Redox Dark Surfa	ace (F6)			Iron-Manganes	se Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		X Depleted Dark Su	urface (F7)			Piedmont Floo	dplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)		Redox Depressio	ns (F8)			Mesic Spodic ((IA6) (MLRA 144A, 145, 149B)
Sandy Ro	edux (SS) Matrix (S6)						Very Shallow F	(FZT)
Surpped Dark Sur	face (S7) (LRR R. MLR	A 149B)					Other (Explain	in Remarks)
_		, , ,						·····,
³ Indicators of	hydrophytic vegetation a	and wetland	hydrology must be pres	ent, unless di	isturbed or	problemat	ic.	
Restrictive La	ayer (if observed):		· · ·			•		
Type: Nor	ne							
Depth (inc	hes):						Hydric Soil Present	? Yes X No
2000 (110								
Remarks:								
Remarks:								
Remarks:								
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U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: Voorheesville/Albany Sampling Date: 2/21/23
Applicant/Owner: TDI	State: NY Sampling Point: P5A-FF Wet
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42.65147	9 Long: <u>-73.926312</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Fx - Fluvaquents-Udifluvents complex, frequ	ently flooded NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificant	tly 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	ng 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 Shrub swamp in Vly Creek floodplain.	here or in a separate 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)		
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)		
X 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)	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 (B	8)	X FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes X	No Depth (inches): 10			
Saturation Present? Yes X	No Depth (inches): 0 Wetlan	d Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
Remarks:				
Fringe to Vly Creek.				

Sampling Point: P5A-FF 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				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. Cornus amomum	40	Yes	FACW	FACW species 75 x 2 = 150
2. Fraxinus pennsylvanica	5	No	FACW	FAC species <u>5</u> x 3 = <u>15</u>
3				FACU species x 4 =
4				UPL species 0 x 5 = 0
5.				Column Totals: 80 (A) 165 (B)
6.				Prevalence Index = B/A = 2.06
7.				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1 Impatiens capensis	20	Yes	FACW	X_3 - Prevalence Index is $\leq 3.0^1$
2 Fravinus pennsylvanica	5	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
		No		data in Remarks or on a separate sheet)
4. Cornus amomum	5	No	FACW	Problematic Hydrophytic Vegetation (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
0				be present, unless disturbed or problematic.
/				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
	35	=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
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sena	rate sheet)			l

SOIL

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument tl	he indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	res	. 2		
(inches)	Color (moist)		Color (moist)		Type'	Loc ²	Texture	Remarks
0-12	10YR 3/1	90	10YR 3/4	10	C		Loamy/Clayey	Distinct redox concentrations
12-17	2.5Y 4/1	70	10YR 5/3	10	C		Loamy/Clayey	Distinct redox concentrations
			7.5YR 4/6	20	C	<u>m</u>		Prominent redox concentrations
		_						
¹ Type: C=C	oncentration, D=Dep	letion, RM	/-Reduced Matrix, N	//S=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)			2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (LRR R,	Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		MLRA 149B	5)			5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Thin Dark Surf	ace (S9) (LRR R	, MLRA [·]	149B) Polyvalu	ue Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		High Chroma S	Sands (S	611) (LRI	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)
X Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Mai	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix ((F2)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Mesic S	podic (A17)		Depleted Matri	ix (F3)			 Red Par	rent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		X Redox Dark Su	urface (F	-6)		Very Sh	allow Dark Surface (F22)
Sandy M	/lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Remarks)
Sandy G	Gleyed Matrix (S4)		Redox Depres	sions (F	8)			
Sandy R	Redox (S5)		Marl (F10) (LR	RK,L)			³ Indicato	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetlar	nd hydrology must be present,
Restrictive	Layer (if observed):							s disturbed of problematic.
Туре:								
Depth (ii	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



Wetland P5A-FF - View facing northeast.



Wetland P5A-FF - Soils

Segment 8 – Package 5A

SITE PHOTOGRAPHS

Champlain Hudson Power Express

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE City/	/County: Voorheesville/Albany Samp	ling Date: 2/21/23					
Applicant/Owner: TDI	State: <u>NY</u> Sam	pling Point: P5A-FF Upl					
Investigator(s): J. Greaves & C.Scrivner	Section, Township, Range:						
Landform (hillside, terrace, etc.): Hillslope Local relief	(concave, convex, none): <u>Convex</u>	Slope %: 5					
Subregion (LRR or MLRA): LRR R Lat: 42.651497	Long: <u>-73.926423</u>	Datum: WGS84					
Soil Map Unit Name: <u>Fx - Fluvaquents-Udifluvents complex</u> , frequently flooded	NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" present?	Yes x No					
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remar	ks.)					
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, importa	int features, etc.					

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes X No X Yes No X	Is the Sampled Area within a Wetland? Yes No _ X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures h Deciduous forest.	ere or in a separate re	port.)

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Dry-Season Water Table (C2)				
Water Marks (B1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	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 (B		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, mor	nitoring well, aerial photos, previous inspe	ections), if	available:		
		,			
Remarks:					

Sampling Point: P5A-FF Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. <u>Acer platanoides</u>	65	Yes	UPL	Number of Dominant Species
2. Fraxinus americana	10	No	FACU	That Are OBL, FACW, or FAC:(A)
 <u>Robinia pseudoacacia</u> <u>4</u>. 	5	No	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)
7.				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 $x 1 = 0$
1. Rubus occidentalis	15	Yes	UPL	FACW species $0 x 2 = 0$
2. Lonicera morrowii	10	Yes	FACU	FAC species 25 x 3 = 75
3.				FACU species 95 x 4 = 380
4.				UPL species $80 \times 5 = 400$
5				Column Totals: 200 (A) 855 (B)
6				$\frac{200}{\text{Prevalence Index} = B/A = -4.28}$
7				Hydrophytic Vegetation Indicators:
··		-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Horb Stratum (Plot size: 5')				2. Dominance Test is >50%
1 Alliaria patialata	45	Voo	EACU	$\frac{2}{2} = Dominance results > 30\%$
	45	<u>Yes</u>		$3 - \text{Prevalence index is } \leq 3.0$
		Yes		data in Remarks or on a separate sheet)
3. Allium schoenoprasum	15	NO	FACU	
4				Problematic Hydrophytic Vegetation (Explain)
5				¹ 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 neight (DBH), regardless of neight.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
12				
	85	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless 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. Celastrus orbiculatus	10	Yes	FACU	height.
2				
3				Hydrophytic Vegetation
4				Present? Yes No X
	10	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1
	,			

Profile Des	cription: (Describe	to the dep	oth needed to doc	ument ti	ne indica	ator or co	onfirm the absence of indic	ators.)	
Depth	Matrix		Redo	x Featur	es1	2	_		
(inches)	Color (moist)		Color (moist)		Туре	Loc	Texture	Remarks	
0-9	10YR 3/1	100					Loamy/Clayey		
9-15	10YR 4/1	90	10YR 4/3	10	C		Loamy/Clayey D	vistinct redox concer	ntrations
		· ·							
		· ·							
		· ·							
Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL=Por	e Lining, M=Matrix.	3
Hydric Son Histoc E Black H Hydroge Stratifie X Deplete Thick D Mesic S (MLF Sandy N Sandy R Stripped	I (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) spodic (A17) RA 144A, 145, 149B) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	e (A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LR Red Parent Ma	(S7) ow Surfac (S) ace (S9) Sands (S Mineral (Matrix (Matrix (ix (F3) urface (F Surface sions (F (R K, L) aterial (F	ce (S8) () (LRR R 611) (LRI (F1) (LRI F2) (F7) 8) 21) (MLF	LRR R, , MLRA ² R K, L) R K, L) R A 145)	149B) 2 cm Muck (A1 Coast Prairie F 5 cm Mucky Pe 149B) Polyvalue Belo Thin Dark Surf Iron-Manganes Piedmont Floo Red Parent Ma Very Shallow E Other (Explain ³ Indicators of h wetland hydr unless disture	10) (LRR K, L, MLR. Redox (A16) (LRR K eat or Peat (S3) (LR w Surface (S8) (LR w Surface (S8) (LR ace (S9) (LRR K, L) se Masses (F12) (LR dplain Soils (F19) (N aterial (F21) (outside Dark Surface (F22) in Remarks) hydrophytic vegetatic rology must be prese bed or problematic.	A 149B) , L, R) R K, L, R) R K, L, R) R K, L, R) //LRA 149B) e MLRA 145) on and ent,
Туре:	Roo	ck							
Depth (i	nches):	15					Hydric Soil Present?	Yes X	No
Remarks.									



Upland P5A-FF - View facing north.



Upland P5A-FF - Soils

Segment 8 – Package 5A

SITE PHOTOGRAPHS

Champlain Hudson Power Express

Project/Site:	Champlain Huds	son Exi	press				City/Cou [,]	nty: Albar	۱y		Sampling Date:	November 15, 2	2021
Applicant/Owner:	СНА						State:	NY	<u> </u>		- Sampling Point:	DP-AC	
Investigator(s):	Tristen Petersor						Section, T	ownship. Rang	ne: Slinge	rland			
Landform (hillslope.	terrace etc.):	Depr	ression				Local relie	of (concave, cor	nvex. none):	Concave	9	Slope (%):	1
Subregion (RR or	MIRAN	I RE					Lat: 42 640303	2°N	Long: _73.92	2024Q°\\/		Datum: NAD8	3
	Sh Shakar						Lai, 72.070000		Long10.02	NW/Lok	scification: Not	Mannad	
Are climatic / hydrol	conditions or	n the si		m al for f	thie fir		ar? Vac	X N	No (I	If no evolair	in Remarks)	маррео	
		I une su	Le typica		.1115 ui	ne or ye	dlf i co ‴th∵diaturba	<u> </u>		Thu, explain	"	M - V Na	
Are vegetation	, Soii	, or	Hyaroi	ogy		sign	ficantly disturbed	1?	Are Normai Ci	rcumstance	s" present?	Yes 🔨 INU	
Are Vegetation	, Soil	, or	Hydrol	ogy		natu	rally problematic	? ((If needed, expl	lain any ans	wers in Remarks.)		
SUMMA		INGS	i – Atl	tach	site	map s	showing sam	npling poin	t locations	, transec	ts, important	features, etc.	
Hydrophytic Vege	tation Present?		Y	/es	x	No		Is the Samp	led Area				
Hydric Soil Preser	nt?		Y	/es	X	– No		within a Wet	tland?	Yes	X No		
Wetland Hydrolog	y Present?		Y	/es _	Х	No		If yes, option	nal Wetland Site	e ID:	AC		
Remarks: (Explain a	alternative procec	Jures h	ere or i	n a se	parate	e report.)						
PEM Wetland lo	cated within a c	depres	sion a	idjace	ent to	a pond	l and railroad b	bed					
	·												
Identified a	as Wetlan	d FA	۹-AC	; on	we	etlanc	1 mapping) and in r	eport tex	.t.			
Wetland Hydrolo	ov Indicators:									Seconda	arv Indicators (mini	mum of two require	ed)
Primary Indicators	(minimum of one	e is req	uired; c	check a	all tha	it apply)				Surfac	e Soil Cracks (B6)		<u></u>
Surface Wate	er (A1)				X	Water-	Stained Leaves ((B9)		Draina	ae Patterns (B10)		
X High Water T	able (A2)					Aquatio	Fauna (B13)	/	Moss Trim Lines (B16)				
X Saturation (A	.3)					Marl De	eposits (B15)			ason Water Table	(C2)		
Water Marks	(B1)				_	Hydrog	jen Sulfide Odor	(C1)		Crayfis	h Burrows (C8)		
Sediment De	posits (B2)				_	Oxidiz€	d Rhizospheres	hizospheres on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)					
Drift Deposits	s (B3)					Presen	ce of Reduced Ir	of Reduced Iron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or 0	Crust (B4)					Recent	Iron Reduction i	Reduction in Tilled Soils (C6) X Geomorphic Position (D2)					
Iron Deposits	, (B5)					Thin M	uck Surface (C7))		Shallow	w Aquitard (D3)		
Inundation Vi	sible on Aerial Im	agery	(B7)			Other (Explain in Rema	rks)		Microto	opographic Relief ((D4)	
Sparsely Veg	jetated Concave	Surface	ə (B8)							FAC-N	eutral Test (D5)		
Field Observation	ns:	_	_	_				_		_			_
Surface Water Pre	sent?	Yes _		No _	<u>X</u>	_ Depth	(inches):			_			
Water Table Prese	ent?	Yes _	<u>X</u>	No _		Depth	(inches): 1		Wetland H	lydrology P	resent? Yes	<u>X</u> No	
Saturation Present	t?	Yes _	<u> x </u>	No _		_ Depth	(inches): 1						
Describe Recorde	d Data (stream g	aude, r	monitor	ina we	II. aer	rial photo	s. previous insp	ections). if avai	ilable;				
		105-,	10	1.9	n,	101 p	, bioites		iubio.				
Remarks:													

VEGETATION - Use scientific na	ames of plants.
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Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 Acer saccharum	10	Yes	FACU	Number of Dominant Species	2 (A)
2		103	1,400	That Are OBL, FACW, of FAC.	2 (A)
2				Total Number of Dominant Species Across All Strate:	4 (P)
······				Species Across Air Strata.	4 (B)
4				Percent of Dominant Species	50 (A/B)
5					(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
	10	= Total Cover		OBL species <u>30</u>	x 1 = <u>30</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 65	$x 2 = \frac{130}{1}$
1. Lonicera morrowii	10	No	FACU	FAC species 5	x 3 = <u>15</u>
2. Onoclea sensibilis	50	Yes	FACW	FACU species 20	$x 4 = \frac{80}{2}$
3. Typha angustifolia	30	Yes	OBL	UPL species <u>0</u>	x 5 = 0
4. Equisetum pratense	15	No	FACW	Column Lotals: 120	(A) <u>255</u> (B)
5				Prevalence Index = B/A = 2.	12
5				Lludran hutia Varatatian Indiaata	
0				1 - Rapid Test for Hydrophytic	rs: Vegetation
1				X 2 - Dominance Test is >50%	, regetation
	105	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations	s ¹ (Provide supporting
1				data in Remarks or on a s	eparate sneet)
2				Problematic Hydrophytic Veg	etation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetla	nd hydrology must
4				be present, unless disturbed or pro	oblematic.
5				Definitions of Vegetation Strata:	
с				Tree Woody plants 2 in (7.6 cm)) or moro in diameter
0				at breast beight (DBH) regardless	of height
<i>1</i>					
8				and greater than or equal to 3.28 ft	t (1 m) tall.
9					a) alasta sa sa dia sa sf
10				size, and woody plants less than 3	 plants, regardless of .28 ft tall.
11					
12				height.	
	0	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1 Vitis riparia	5	Vec	FAC		
			140	Hydrophytic	
2		No		Vegetation	×.
3		No		Present? Yes	XNo
4					
	5	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					

soli

Instrument Status Type1 Loc2 Texture Remarks 10YR 3/1 100	20	Color (moist) 10YR 3/1 10YR 3/1 10YR 4/2	% 100 85	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
10YR 3/1 100 Clay 10YR 3/1 85 7.5YR 5/6 15 C M Study Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Shry Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Shry Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Shry Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Shry Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Shry Clay Loam 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 10YR 5/7 <th>) 20 </th> <th>10YR 3/1 10YR 3/1 10YR 4/2</th> <th><u> 100 </u> 85</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>) 20 	10YR 3/1 10YR 3/1 10YR 4/2	<u> 100 </u> 85						
IOTK 3/1 IOU Chy 10YR 3/1 65 7.5YR 5/6 15 C M Simp Clay 10YR 4/2 70 7.5YR 5/6 30 C M Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 30 C M Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 10 10 Silly Clay Loam 10YR 4/2 70 7.5YR 5/6 10 10 10 10YR 4/2 10 10 10 10 10 10YR 4/2 10 10 10 10 10 10YR 4/2 10 10		10YR 3/1 10YR 3/1 10YR 4/2	85						
10YR 3/1 85 7.5YR 5/6 15 C M Onloading 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 70 7.5YR 5/6 30 C M Silv Clay Leam 10YR 4/2 10 10YR 4/2 10 Silv Clay Leam 10 10YR 4/2 10<)	10YR 3/1 10YR 4/2	85					Clay	
10YR 4/2 70 7.5YR 5/6 30 C M Silty Clay Leam	20	10YR 4/2		7.5YR 5/6	15	С	М	Loam	
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e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand, Grain, MIRA 149B) e: C=CastPorter Reduced Matrix, (F3) Indicators for Problematic Hydric Soils ³ : Indicators (S7) (LRR K, L, R) Depleted Datrix (S1) Depleted Matrix (S1) Redox Dark Surface (F7) Redox Dark Surface (S5) Stripped Matrix (S4) Redox Depressions (F8) Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Redox (S5) Stripped Matrix (S4) Redox Depressions (F8) Redox Parent Material (F21) Very Shallow Dark Surface (T712) Dark Surface (S7) (LRR R, MLRA 149B) Redox (S5) Stripped Matrix (S4) Redox Parent Material (F21) Very Shallow Dark Surface (T712) Dark Surface (S7) (LRR R, MLRA 149B) Redox (S5) Stripped Matrix (S4) Redox Parent Material (F21) Very Shallow Dark Surface (T712) Dark Surface (S7) (LRR R, MLRA 149B) Redox Parent Material (F21) Very Shallow Dark Surface (T712) Dark Surface (S7) (LRR R, MLRA 149B) Redox Parent Material (F21) Redox Parent Material (F21) NC Redox Pare				1.011(0/0				Only Olay Loam	
s: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histos (A1) Polyvalue Below Surface (S8) (LRR R, Histos (A1) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Ydrogen Sulfde (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Gleyed Matrix (S6) Weat Artage (F12) Dark Surface (S7) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Signeed Matrix (S6) Meak Surface (F12) Sandy Mucky Signeed Matrix (S6) Other (Explain in Remarks) zators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. retive Layer (if observed): ype: None epth (inches): Hydric Soil Present? Yes X No									
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Indicators:	ria Call Indi	lastara	inii itodu					Indicators for Pro	blomatic Hydria Saila ³ :
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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 (S6) Thick Dark Surface (A12) X 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 144A, 145, 149B) Sators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) sators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No ype: None word Hydric Soil Present? Yes X No No	Histic Epipe	, edon (A2)		MLRA 149B)	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Coast Prairie	Redox (A16) (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) X 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) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No epth (inches): Hydric Soil Present? Yes X No	Black Histic	c (A3)		Thin Dark Surfac	æ (S9) (LRR	R, MLRA	I 49 B)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
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) X 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) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No ype: None None Hydric Soil Present? Yes X No	Hydrogen S	Sulfide (A4)		Loamy Mucky M	ineral (F1) (I	_RR K, L)		Dark Surface	(S7) (LRR K, L, M)
Depleted Below Dark Surface (A11)	Stratified La	ayers (A5)		Loamy Gleyed M	latrix (F2)			Polyvalue Bel	ow Surface (S8) (LRR K, L)
Thick Dark Surface (A12) X Redox Dark Surface (F6)	Depleted Br	elow Dark Surface (A1	1)	Depleted Matrix	(F3)			Thin Dark Sur	face (S9) (LRR K, L)
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Sandy Gleyed Matrix (S4)	Sandy Muc	ky Mineral (S1)		Depleted Dark S	urface (F7)			Piedmont Floo	odplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)	Sandy Gley	yed Matrix (S4)		Redox Depression	ons (F8)			Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)	Sandy Red	IOX (S5)						Red Parent M	aterial (F21)
cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): ype: None 'epth (inches): Hydric Soil Present? Yes X No	Dark Surfac		1408)					Other (Explain	Dark Surface (TFTZ)
cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): ype: None 'epth (inches): Hydric Soil Present? Yes X No	Dark Sunac		(1490)						r in Remarks)
rictive Layer (if observed): ype: None lepth (inches):	· · · · · · · · · · · · · · · · · · ·					all a facada a calca		- 4' -	
ivpe: <u>None</u> iepth (inches):	cators of ny	dropnytic vegetation a	nd wetland	nydrology must be pre	sent, uniess	disturbed o	r problema	atic.	
Pepth (inches): Hydric Soil Present? Yes X No	TVDe: None	er (li observed):							
	Donth (incho);						Hudria Sail Procont	2 Vac X Na
	Jeptin (inche	, 5).						Hydric Soli Present	. res <u> </u>



Project/Site:	Champlain Huds	on Express		City/County:	Alt	bany		:	Sampling Da	ate: <u>No</u>	wember 15	, 2021
Applicant/Owner:	СНА			State:	N	Y			Sampling Poi	nt: DF	P-AC-Uplar	nd
Investigator(s):	Tristen Peterson			Section, Towns	hip, Ra	inge:	Slingerl	and				
Landform (hillslope,	terrace, etc.):	Terrace		Local relief (cor	ncave,	convex, no	one):	Convex		s	lope (%):	1
Subregion (LRR or M	/ILR <u>A):</u>	LRR R	Lat:	42.640370°N		Long:	-73.920	211°W		D	atum: NAD	83
Soil Map Unit Name	Sh - Shaker f	ine sandy loam						NWI class	ification:	Not Mappe	ed	
Are climatic / hydrolo	ogic conditions on	the site typical for th	his time of year? Ye	es	Х	No	(If	no, explain ir	Remarks.)			
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?		Are "No	rmal Circ	cumstances"	present?	Yes	X	0
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?		(If need	ed, expla	in any answe	ers in Remar	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	<u>x</u>
Wetland Hydrology Present?	Yes	No	Х	If yes, optional Wetland Site ID:			
Remarks: (Explain alternative procedures Upland Data point for Wetland AC,	here or in a separ located within re	ate report.) sidential ya	rd.				

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

Sampling Point: DP-AC-Upland

	Absolute	Dominant	Indicator	Dominanco Tost workshoot:
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus resinosa	20	Yes	FACU	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/B)
5				(03)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	20	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{0}{x^2} = \frac{0}{x^2}$
1				FAC species 0 $x 3 = 0$
· ·				FACU species 105 x 4 = 420
2				UPL species $0 x 5 = 0$
3				Column Totals: 105 (A) 420 (B)
4				(*), _ <u></u> (*),
5				Prevalence Index = B/A = 4
0				
0				1 Rapid Test for Hydrophytic Vegetation
7				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 ¹ (Provide supporting
			54011	data in Remarks or on a separate sheet)
	85	res	FACU	1_
2. <u>Trifolium repens</u>	20	No	FACU	Problematic Hydrophytic Vegetation ' (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata
6				t broast bright (DDLI), assarding of bright
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
				size, and woody plants less than 3.28 ft tall.
n				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 <u>No X</u>
4				
	0	= Total Cove	r	
Remarka: (Induda nhata numbara hara ar an a conor	ata abaat)			
No hydrophytic vegetation found at data point	ale sheel.)			

100 Sity Clay Loam 110 Polyvalue Below Surface (S9) (LRR R, MLRA 1498) 110 Loamy Mucky Mineral (F1) (LRR K, L) 111 Depleted Matrix (F3) Redox Dark Surface (F6) Inon-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1498) Redox Depressions (F8) Mesic Spocic (TrA6) (MLRA 1442, 145, 1498) Red Parent Material (F21) Very Shaltow Dark Surface (TF12) Other (Explain in Remarks) Starture (TF12) A 1498) and wetland hydrology must be present, unless disturbed or problematic.	Introduction Introduction Introduction Introduction Introductic Introduction Introduction	ches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
100 Słły Cłay Loam Słły Cłay Loam Słły Cłay Loam NRARA 1498) Słły Cłay Loam Słły Cłay Loam Słły Cłay Loam NICRA 1498) Słły Cłay Loam Słły Cłay Loam Słły Cłay Loam NICRA 1498) Słły Cłay Loam Słły Cłay Loam Słły Cłay Loam	10YR 4/2 100 Shy Clay Leam Interview Interview Shy Clay Leam Interview Interview Interview Interview Interview			
	e: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix, ric Soil Indicators: Indicators (FL=Pore Lining, M=Matrix, Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 1498) Black Histos (A3) Thin Dark Surface (S9) (LRR R, MLRA 1498) Straffied Layers (A5) Loamy Mudy Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S1) Depleted Matrix (F2) Depleted Dark Surface (A12) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Revord (S5) Redox Depressions (F8) Sandy Revord (S5) Redox Depressions (F8) Sandy Revord (S5) Redox Depressions (F8) Straffeed (S1) (LRR R, MLRA 1498) Very Shallow Dark Surface (T12) Other (Explain in Remarks) Cost Depressions (F8) Sandy Revord (S5) Hydrology must be present, unless disturbed or problematic. rictive Layer (f observed); Very Shallow Dark Surface (T12) Other (Explain in Remarks) Hydric Soil Present? Yes Artis: drive old present at data point Hydric Soil Present? Yes	10YR 4/2 100	·	Silty Clay Loam
Image: Space of CF3 Image: Space of CF3 Image: Space of CF3 Image: Space of CF3 <td>e: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains, ²Location: PL=Pore Lining, M=Matrix, ic Soil Indicators: Indicators: Histoc Planta Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prainte Redox (A10) (LRR K, L, MLRA 149B) Stratified Layers (A5) Loamy Mucky Miterat (F1) (LRR K, L) Depleted Below Dark Surface (S2) Polyvalue Below Matrix (F2) Depleted Matrix (S4) Loamy Gleyed Matrix (F2) Depleted Matrix (S4) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F2) Sandy Redox (S5) Redox Dark Surface (F2) Stratified (Matrix (S8) Redox Dark Surface (F2) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stratified (Inf Observed): Stratified (Inf Observed): Sric Mucky Mineral (S1) Depleted Dark Surface (F2) Matrix (S8) Dar</td> <td></td> <td></td> <td></td>	e: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains, ² Location: PL=Pore Lining, M=Matrix, ic Soil Indicators: Indicators: Histoc Planta Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prainte Redox (A10) (LRR K, L, MLRA 149B) Stratified Layers (A5) Loamy Mucky Miterat (F1) (LRR K, L) Depleted Below Dark Surface (S2) Polyvalue Below Matrix (F2) Depleted Matrix (S4) Loamy Gleyed Matrix (F2) Depleted Matrix (S4) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F2) Sandy Redox (S5) Redox Dark Surface (F2) Stratified (Matrix (S8) Redox Dark Surface (F2) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stratified (Inf Observed): Stratified (Inf Observed): Sric Mucky Mineral (S1) Depleted Dark Surface (F2) Matrix (S8) Dar			
Image: Second	e: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. e: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. listosol (A1)			
Image: Second Strate State State State State Strate State Strate State State Strate State Strate State Strate Strate State Strate State Strate Str	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histoic Diploton (A2) MLRA 149B) Black Histic (A3)			
Image: State in the image: State in	a: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosoi (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic Capledon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L, R) Pydrogen Suffide (A4) Loamy Mucky Minreal (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Matrix (S4) Redox Dark Surface (F6) Sandy Mucky Minreal (S1) Depleted Dark Surface (F7) Sandy Mucky Minreal (S1) Depleted Dark Surface (F7) Sandy Matrix (S4) Redox Dark Surface (F7) Sandy Matrix (S4) Redox Depressions (F8) Sandy Gleged Matrix (S4) Redox Depressions (F8) Sandy Gleged Matrix (S6) Other (Explain in Remarks) Satified Layer (if observed): Very Shallow Dark Surface (TF12) Dark Surface (S5) Other (Explain in Remarks) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Hydrosofter (Tr12) Dark Surface (S7) (LRR R, MLRA 149			
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A. RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : ² Com Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) ² Coation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : ² Com Muck (A10) (LRR K, L, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L, R) Loamy Gleyed Matrix (F2) Dark Surface (S9) (LRR K, L, R) 11) Depleted Matrix (F3) Redox Dark Surface (F6) Derleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 1448, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) A 149B) and wetland hydrology must be present, unless disturbed or problematic.	e: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ic Soll Indicators: Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) Indicators for Problematic Hydric Solis ² :			
1, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, ic Soil Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Stratified Layers (A5) Redox Depressions (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Bleved Matrix (S5) Redox Depressions (F8) Sandy Gleyed Matrix (S5) Redox Depressions (F8) Sandy Gleyed Matrix (S5) Very Shaltow Dark Surface (F12) Derleted Dark Surface (S7) (LRR K, L, R) Mesic Spocia (TA6) (MLRA 1449, 145, 149B) Sandy Gleyed Matrix (S6) Redox Depressions (F8) Stripped Matrix (S5) Were Studies (S12) Derleted Dark Surface (S7) (LRR K, L, R) Stripped Matrix (S6) Very Shaltow Dark Surface (S7) Derleted Dark Surface (S7) (LRR K, L, R) Stripped Matrix (S6) Very Shaltow Dark Surface (S7) (LRR K, L, R) Stripped Ma			
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n, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix. ic Soll Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) MLRA 149B) Black Histic (A3)			
N. RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S6) 11) Depleted Matrix (F3) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) A 149B) Other (Explain in Remarks)	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. tc Soil Indicators: Histosol (A1) Polyvalue Below Surface (S3) (LRR R, Histo (A2) Indicators (S3) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S3) (LRR K, L, M) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Iron-Marganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Medox (S5) Mesic Spodic (TA6) (MLRA 149B) satisting Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 149B) sators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Mere Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mytrix Soil			
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n, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.			
n, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils ³ : Histo: Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Dark Surface (S9) (LRR K, L) Stratified Layers (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1448) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Coast Present? Yes No X cators of hydrophytic vegetation and wetland hydrology must be present, unl			
	ic Soil Indicators: Indicators: Indicators (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Indicators for Problematic Hydric Soils 3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) S cm Muck (A10) (LRR K, L, MLRA 149B) Stratified Layers (A5) 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 (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 Depresent, unless disturbed or problematic. Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Coster (Explain in Remarks) No X cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No X marks: mrks: Hydric Soil Present? Yes No X	e: C=Concentration D=Depletion RM=6	reduced Matrix_MS=Masked Sand Grains	² Location: PL=Pore Lining M=Matrix
Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B)	The Sol Indicators is thistos (A1) Polyvalue Below Surface (S8) (LRR R, Mistos (A1) 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 Muck (A16) (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) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Polyvalue Below Surface (T40) (MLRA 1448) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spoito (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spoito (TA6) (MLRA 144A, 145, 149B) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Very Shallow Dark Surface (TF12) Other (Explain in Remarks) No X cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No Ype: None Hydric Soil Present? Yes No X			Indicators for Problematic Hydric Sails ³
MLRA 149B) Coast Praire Redox (A16) (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) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) 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) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Very Shallow Dark Surface (TF12) Operth (inches): Hydric Soil Present? Yes No X arks: mrks: Mesic Spodic TA6 point	Histosol (A1)	Polyvalue Below Surface (S8) (LRR R.	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) 11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) A 149B) Other (Explain in Remarks)	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 (S9) (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 Depresent, unless disturbed or problematic. Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) No X cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. No X rick suffic soils present at data point Hydric Soil Present? Yes No X	Histic Epipedon (A2)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) .11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)	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) Sartified Layer (if observed): Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. No X rice inches): No X arks: dric soils present at data point	Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) A 149B) Other (Explain in Remarks)	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, 145, 149B) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144B, 145, 149B) Cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No X arks: dric soils present at data point No X X	Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)	Dark Surface (S7) (LRR K, L, M)
A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) A 149B) Other (Explain in Remarks)	Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No X arks: arks: dris soils present at data point No X	Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
A 149B) Redox Dark Surface (F6) Bepleted Dark Surface (F7) Redox Depressions (F8) A 149B) Redox Depresent, unless disturbed or problematic. Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No X arks: rdric soils present at data point Hydric Soil Present? Yes No X	Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)
Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	Sandy Mucky Mineral (S1)	Thick Dark Surface (A12)	Redox Dark Surface (F6)	Iron-Manganese Masses (F12) (LRR K, L, R)
A 149B) Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) and wetland hydrology must be present, unless disturbed or problematic.	Sandy Gleyed Matrix (S4)	Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	Piedmont Floodplain Soils (F19) (MLRA 149B
A 149B) A 149B A 14	Sandy Redox (S5)	Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
A 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)	Stripped Matrix (S6)	Sandy Redox (S5)		Red Parent Material (F21)
A 149B) Other (Explain in Remarks) and wetland hydrology must be present, unless disturbed or problematic.	Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Stripped Matrix (S6)		Very Shallow Dark Surface (TF12)
and wetland hydrology must be present, unless disturbed or problematic.	icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No X narks: ydric soils present at data point	Dark Surface (S7) (LRR R, MLRA 149B)	Other (Explain in Remarks)
and wetland hydrology must be present, unless disturbed or problematic.	cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. irrictive Layer (if observed): yee: None Depth (inches): Hydric Soil Present? Yes No X arks: ydric soils present at data point			
•	Trictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes arks: rdric soils present at data point	cators of hydrophytic vegetation and wet	and hydrology must be present, unless disturbed or probler	matic.
	Depth (inches): Hydric Soil Present? Yes No X arks: vdric soils present at data point	Type: None		
	arks: /dric soils present at data point	Spot (inchos):	—	Hydric Soil Present? Yes No. X
	arks: dric soils present at data point			
I		arks: /dric soils present at data point		
		,		
Hydric Soil Present? Yes	ydric soils present at data point	_ Dark Surface (S7) (LRR R, MLRA 149B dicators of hydrophytic vegetation and wet strictive Layer (if observed): Type: <u>None</u> Depth (inches): marks:) and hydrology must be present, unless disturbed or probler	Other (Explain in Remarks) matic. Hydric Soil Present? Yes
		arks: /dric soils present at data point		



U.S. Army Corps of Engineers	OMB Co
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region	Requi
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	(Auth

MB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE				City/Cou	nty: Voorhee	esville/ A	lbany		Sampling Da	te: <u>7/2</u>	26/22
Applicant/Owner:	TDI						State:	NY	Sampling F	oint:	Wet AC-001E
Investigator(s): N. Fra	azer & J. Gi	reaves			Section, Tow	vnship, F	Range:				
Landform (hillside, terr	ace, etc.):	depression		Local relief (con	cave, conve	k, none):	concave	е	S	lope %	: 0
Subregion (LRR or ML	RA): LRF	<u>R</u> L	at:	42-38-23.81N	Long:	73-55-1	1.82W		Datun	n: <u>W</u>	GS84
Soil Map Unit Name:	Shaker fin	e sandy loam (Sh)				NW	'l classifi	cation:	PEM		
Are climatic / hydrolog	ic condition	s on the site typical	for t	this time of year?	Yes <u>x</u>	No		(If no, e	explain in Rem	narks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norm	al Circur	mstance	s" prese	ent? Yes	x N	0
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If needed	, explain	any ans	wers in	Remarks.)		
		Attack alta m			a:						

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative proce	dures here or in a separate 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)
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)	X 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)	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 (B	8)	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): Wetla	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: Wet AC-001E

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:1(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.				FACW species 65 x 2 = 130
2.				FAC species 4 x 3 = 12
3.				FACU species 1 $x 4 = 4$
4.				UPL species 6 x 5 = 30
5				Column Totals: 76 (A) 176 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydrophytic Vegetation Indicators:
··		-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Horb Stratum (Diat aizo: 5')				2. Dominance Test is >50%
<u>Heid Stratum</u> (Plot size. <u>5</u>)	50	Mara		X 2 - Dominance Test is >50%
		Yes		$\frac{X}{2}$ 3 - Prevalence index is ≤ 3.0
2. Carex tribuloides	15	No	FACW	4 - Morphological Adaptations" (Provide supporting data in Remarks or on a separate sheet)
3. <u>Vicia cracca</u>	5	No	UPL	
4. <u>Equisetum arvense</u>	2	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Taraxacum officinale	1	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
6. Centaurea stoebe	1	No	UPL	be present, unless disturbed or problematic.
7. Galium boreale	2	No	FAC	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				Sanling/shruh – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	76	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
, 1.				woody vines – All woody vines greater than 3.28 ft in height.
2				
3				Hydrophytic
0				Vegetation Present? Ves X No
T		-Total Cavar		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Color (moist) % Color (moist) % Type Loc' Texture Remarks 0-9 10YR 3/1 93 10YR 6/3 5 C M Loamy/Clayey Distinct redox concentrations 9-10 10YR 3/1 80 2.5Y 5/3 20 C M Loamy/Clayey Distinct redox concentrations 10-14 10YR 5/2 73 10YR 3/6 2 C M Loamy/Clayey Prominent redox concentrations 10-14 10YR 5/2 73 10YR 3/6 2 C PL Prominent redox concentrations 10YR 3/6 2 C PL Prominent redox concentrations Prominent redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Coattor relations Locattor 11Ype: Cast Muck Mathang </th <th>(inches) Colo 0-9 10 9-10 10 10-14 10 </th> <th>br (moist) IYR 3/1 IYR 3/1 IYR 5/2 IYR 5/2 IYR 5/2</th> <th>% . 93 . 80 . 73 </th> <th>Color (moist) 10YR 5/3 10YR 4/6 2.5Y 5/3 10YR 5/6 10YR 3/6 10YR 4/1</th> <th>% 5 2 20 10 2 15</th> <th>Type¹ C C C C C C C C C C C C C</th> <th>Loc² M M M PL M</th> <th>Texture Loamy/Clayey Loamy/Clayey Loamy/Clayey</th> <th>Remarks Distinct redox concentrations Prominent redox concentrations Distinct redox concentrations Prominent redox concentrations Faint redox concentrations</th>	(inches) Colo 0-9 10 9-10 10 10-14 10	br (moist) IYR 3/1 IYR 3/1 IYR 5/2 IYR 5/2 IYR 5/2	% . 93 . 80 . 73 	Color (moist) 10YR 5/3 10YR 4/6 2.5Y 5/3 10YR 5/6 10YR 3/6 10YR 4/1	% 5 2 20 10 2 15	Type¹ C C C C C C C C C C C C C	Loc ² M M M PL M	Texture Loamy/Clayey Loamy/Clayey Loamy/Clayey	Remarks Distinct redox concentrations Prominent redox concentrations Distinct redox concentrations Prominent redox concentrations Faint redox concentrations
0-9 10YR 3/1 93 10YR 5/3 5 C M Leamy/Clayey Distinct redox concentrations 9-10 10YR 3/1 80 2.5Y 5/3 20 C M Leamy/Clayey Distinct redox concentrations 10-14 10YR 3/1 80 2.5Y 5/3 20 C M Leamy/Clayey Prominent redox concentrations 10-14 10YR 3/6 2 C PL Prominent redox concentrations 10YR 3/6 2 C PL Prominent redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YRet/Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, L Sorm Muck (10) (LRR K, L, R), K, L Stratiffied Layers (A5) High Choma Sands	0-9 10 9-10 10 10-14 10	IYR 3/1	93	10YR 5/3 10YR 4/6 2.5Y 5/3 10YR 5/6 10YR 3/6 10YR 4/1	5 2 20 10 2 15		 	Loamy/Clayey	Distinct redox concentrations Prominent redox concentrations Distinct redox concentrations Prominent redox concentrations Prominent redox concentrations Faint redox concentrations
Interface Interface Interface Interface Province	9-10 10 10-14 10 	IYR 3/1	<u>80</u> 73	10YR 4/6 2.5Y 5/3 10YR 5/6 10YR 3/6 10YR 4/1	2 20 10 2 15		M M PL M	Loamy/Clayey Loamy/Clayey	Prominent redox concentrations Distinct redox concentrations Prominent redox concentrations Prominent redox concentrations Faint redox concentrations
9-10 10YR 3/1 80 2.5Y 5/3 20 C M Loamy/Clayey Distinct redox concentrations 10-14 10YR 5/2 73 10YR 5/6 10 C M Loamy/Clayey Prominent redox concentrations	9-10 10 10-14 10 10-14 10 10-14 10 10-14 10 10-14 10 10-14 10 10-14 10 10-14 10 10 10-14 10 10 10 10 10 10 10 10 10 10 10 10 10	YR 3/1	<u>80</u> 73 	2.5Y 5/3 10YR 5/6 10YR 3/6 10YR 4/1	20 10 2 15	C C C C	M M PL M	Loamy/Clayey	Distinct redox concentrations Prominent redox concentrations Prominent redox concentrations Faint redox concentrations
10-14 10YR 5/2 73 10YR 5/6 10 C M Loamy/Clayey Prominent redox concentrations 10YR 3/6 2 C PL Prominent redox concentrations Prominent redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YPe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. * * Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : * Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, bl Chrom Sands (S11) (LRR K, L) * Coast Praine Redox (A16) (LRR K, L) Black Histic (A3) MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L) * Polyvalue Below Surface (S9) (LRR K, L) * Thic Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) * Thin Dark Surface (S1) (LRR K, L) * Polyvalue Below Surface (S1) (LRR K, L) * Thic Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) * Thin Dark Surface (F2) (MLRA 1498) * Sandy Mucky Mineral (S1) <t< td=""><td>10-14 10</td><td>YR 5/2</td><td> ·</td><td>10YR 5/6 10YR 3/6 10YR 4/1</td><td><u>10</u> <u>2</u> <u>15</u> </td><td> </td><td> </td><td>Loamy/Clayey</td><td>Prominent redox concentrations Prominent redox concentrations Faint redox concentrations</td></t<>	10-14 10	YR 5/2	·	10YR 5/6 10YR 3/6 10YR 4/1	<u>10</u> <u>2</u> <u>15</u> 	 	 	Loamy/Clayey	Prominent redox concentrations Prominent redox concentrations Faint redox concentrations
10YR 3/6 2 C PL Prominent redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YR 4/1 15 C M Faint redox concentrations 10YPe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Polyvalue Below Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) 5 cm Muck Yeat or Peat (S3) (LRR K, L, R) Hydrogen Suffide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) S cm Muck Yeat or Peat (S3) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Micky Minerai (F1) (LRR K, L) Tron-Manganese Masses (F12) (LRR K, L) Depleted Below Dark Surface (S1) Depleted Matrix (F3) Red Parent Material (F21) (LOUK 144, 145) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (LOUK 144, 145) Sandy Mucky Minerai (S1) Depleted Bark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mine	¹ Type: C=Concentrat Hydric Soil Indicator			10YR 3/6 10YR 4/1	2 	с с	PL 	·	Prominent redox concentrations
Image:	¹ Type: C=Concentral Hydric Soil Indicato			10YR 4/1	 			·	Faint redox concentrations
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydric Soil Indicators: Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type:	¹ Type: C=Concentral Hydric Soil Indicator	tion D=Deplet	·					·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Castriarie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Loamy Gleyed Matrix (F3) Mesic Spodic (A17) Depleted Matrix (F3) MuRA 144A, 145, 149B) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matri (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Tone Type: none Depth (inches): Hydric Soil Present? Yes _X_ No_	¹ Type: C=Concentrat Hydric Soil Indicator	tion D=Deplet	·						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Type: none Depth (inches): none Depth (inches): No	¹ Type: C=Concentrat Hydric Soil Indicator	tion D=Deplet	·						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1)	¹ Type: C=Concentrat Hydric Soil Indicator	tion D=Deplet							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : 1 Histics (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) 2 cm Muck (A10) (LRR K, L, R) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Plepth (inches): Yes_X No Remarks: Mont Sill Present? Yes_X No	¹ Type: C=Concentrat Hydric Soil Indicato	tion D=Deplet							
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1)	Hydric Soil Indicator		tion, RM	=Reduced Matrix, N	//S=Masł		d Grains.	² Location: P	PL=Pore Lining, M=Matrix.
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): No Hydric Soil Present? Yes X No	-	rs:						Indicators for	or Problematic Hydric Soils ³ :
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, F) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): none Yes_X No Depth (inches): Remarks: Hydric Soil Present? Yes_X No	Histosol (A1)			Dark Surface ((S7)			2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, F Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none No Depth (inches): No Hydric Soil Present? Yes X No Reemarks: Hydric Soil Present? Yes X No Inclusion	Histic Epipedon (A2)		Polyvalue Belo	ow Surfac	ce (S8) (LRR R,	Coast Pr	rairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 145 (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none No Depth (inches): Hydric Soil Present? Yes X No Remarks: Hydric Soil Present? Yes X No	Black Histic (A3)	(. .)		MLRA 149E	B)			5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, I
Stratified Layers (A5)	Hydrogen Sulfide	e (A4)		Thin Dark Sur	face (S9)	(LRR R	, MLRA 1	149B) Polyvalu	le Below Surface (S8) (LRR K, L)
Depieted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Infort-Manganese Masses (F12) (LRR K, L, 1 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none No Depth (inches): No Hydric Soil Present? Yes X No	Stratified Layers	(A5) David Cumfana (High Chroma	Sands (S	11) (LRI	RK,L)	Thin Dar	rk Surface (S9) (LRR K, L)
Inick Dark Surface (A12) Loamy Gleyed Matrix (F2) Pledmont Floodplain Soils (F19) (MLRA 14 Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA (MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none No Depth (inches): Remarks: Hydric Soil Present? Yes X No	Depleted Below L	Jark Surface (A11)	Loamy Mucky	Mineral (F1) (LR I	R K, L)	Iron-Mar	nganese Masses (F12) (LRR K, L,
Image: Spoule (AT7)	Masia Spadia (A1	ce (A12)		Loamy Gleyed	i Matrix (I	-2)		Pleamon	nt Floodplain Solis (F19) (MLRA 14
(MLKA 144A, 143, 143, 143, 143, 143, 143, 143, 143		145 140B)		Depleted Mati	ix (F3) urfaco (E	6)			allow Dark Surface (E22)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes X Remarks:	Sandy Mucky Mir	neral (S1)			Surface	(F7)		Very One Other (F	Evolain in Remarks)
	Sandy Mucky Mi	(S4)		Bedox Depres	sions (F8	(1 <i>7)</i> R)			
Stripped Matrix (S6)	Sandy Redox (S5	5)		Marl (F10) (LR	R K. L)	~)		³ Indicato	ors of hydrophytic vegetation and
Restrictive Layer (if observed):	Stripped Matrix (S	S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetlan	nd hydrology must be present,
Type: none Depth (inches): Hydric Soil Present? Yes X No	Restrictive Layer (if	observed):							
Depth (inches): Hydric Soil Present? Yes X No Remarks:	Туре:	none							
Remarks:	Depth (inches):							Hydric Soil Preser	nt? Yes <u>X</u> No
	Remarks:							ł	



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: Voorheesville/ Albany Sampling Date: 7/26/22
Applicant/Owner: TDI	State: NY Sampling Point: Upl AC-001E
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local I	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-38-24.04N	Long: <u>73-55-11.92W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Shaker fine snady loam (Sh)	NWI classification: N/A
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 distur	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Mowed lawn	res here or in 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)	Drainage Patterns (B10)				
High Water Table (A2)	Moss Trim Lines (B16)				
Saturation (A3)	Dry-Season Water Table (C2)				
Water Marks (B1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	3) 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 N	lo x Depth (inches):				
Water Table Present? Yes N	lo x Depth (inches):				
Saturation Present? Yes N	lo x Depth (inches): Wet	land Hydrology Present? Yes <u>No X</u>			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections)	, if available:			
Remarks:					

Sampling Point: Upl AC-001E

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:3(B)				
5				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 0 x 1 = 0				
1.				FACW species 0 x 2 = 0				
2.				FAC species 2 x 3 = 6				
3.				FACU species 127 x 4 = 508				
4.				UPL species 5 x 5 = 25				
5.				Column Totals: 134 (A) 539 (B)				
6.				Prevalence Index = $B/A = 4.02$				
7.				Hydrophytic Vegetation Indicators:				
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%				
1 Trifolium repens	60	Yes	FACU	3 - Prevalence Index is < 3.01				
2 Plantago maior	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting				
3 Centaurea stoebe	5	No		data in Remarks or on a separate sheet)				
A Plantaro lanceolata	2	No		Broblematic Hydrophytic Magatatics ¹ (Evaluin)				
5 Pop pratensis		Ves						
5. For protections 6. Galium boreale	2	No	FAC	 ¹Indicators of hydric soil and wetland hydrology must 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.				Sanling/shrub Woody plants loss than 3 in DRH				
11				and greater than or equal to 3.28 ft (1 m) tall.				
12				Herb - All berbaceous (non-woody) plants, regardless				
	114	=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. Celastrus orbiculatus	20	Yes	FACU	height.				
2								
3				Hydrophytic Vegetation				
4				Present? Yes No X				
	20	=Total Cover						
Remarks: (Include photo numbers here or on a sepa	rate sheet.)							
	,							

Profile Dese	cription: (Describe	to the dep	oth needed to doc	ument t	he indica	ator or co	onfirm the absence of ind	icators.)				
Depth	Matrix		Redo	x Featu	res	. 2						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	Texture	Remarks				
0-10	10YR 3/1	100					Loamy/Clayey					
					·							
	·				·							
					·							
	·			·								
					·							
					<u> </u>							
	·			·	·							
					·							
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, I	MS=Mas	sked Sand	d Grains.	² Location: PL=Po	ore Lining, M=M	atrix.			
Hydric Soil	Indicators:						Indicators for Pr	oblematic Hyd	ric Soils ³ :			
Histosol	l (A1)		Dark Surface	(S7)			2 cm Muck (A	(LRR K, L ,	MLRA 149B)			
Histic E	pipedon (A2)		Polvvalue Belo	ow Surfa	ace (S8) (LRR R.	Coast Prairie	Redox (A16) (L	.RR K. L. R)			
Black H	istic (A3)		MI RA 149F	3)		,	5 cm Mucky I	Peat or Peat (S	3) (I RR K I R)			
Hydroge	an Sulfide $(A4)$		Thin Dark Sur	•) face (50			1/9B) Polyvalue Be	low Surface (St				
Flydroge			High Chromo	Condo (Thin Dork Su					
	u Layers (Ab)	()		Sanus (K K, L)			(\mathbf{n}, \mathbf{L})			
Deplete	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Mangane	ese Masses (F1	2) (LRR K, L, R)			
Thick Da	ark Surface (A12)		Loamy Gleyed	d Matrix ((F2)		Piedmont Flo	odplain Soils (F	19) (MLRA 149B)			
Mesic S	podic (A17)		Depleted Matr	ix (F3)			Red Parent N	laterial (F21) (o	utside MLRA 145			
(MLF	RA 144A, 145, 149B)		Redox Dark S	urface (I	F6)		Very Shallow	Dark Surface (F22)			
Sandy N	/lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (Explai	n in Remarks)				
Sandy C	Gleyed Matrix (S4)		Redox Depres	sions (F	8)							
Sandy F	Redox (S5)		 Marl (F10) (LF	RR K, L)			³ Indicators of	hydrophytic ve	getation and			
Stripped	d Matrix (S6)		Red Parent M	aterial (F		RA 145)	wetland hydrology must be present,					
					, (,	unless dist	urbed or proble	matic			
Restrictive	l aver (if observed):											
Type		k										
Type.		'n										
Depth (i	nches):	10					Hydric Soil Present?	Yes	NoX			
Remarks:							•					
1												
1												
1												



Project/Site:	Champlain Huds	on Express			City/County:	: Alba	any			Sampling Date	e: <u>N</u>	November 15, 2021			
Applicant/Owner:	СНА				State:	NY		Sampling Point	: <u> </u>)P-Z					
Investigator(s):	Tristen Peterson				Section, Tow	nship, Rar	ige:	Slingerla	and						
Landform (hillslope,	terrace, etc.):	Depression			Local relief (c	concave, c	onvex, n	one):	Concave			Slope (%)	:	1	
Subregion (LRR or I	MLR <u>A):</u>	LRR R		Lat:	42.635155°N		Long:	-73.917	517°W			Datum: NA	D83		
Soil Map Unit Name	e: <u>SuA - Sudbur</u>	y fine sandy loam,	0 to 3 p	percent slope	es				NWI cla	ssification: <u>R4</u>	4SBC				
Are climatic / hydrol	ogic conditions on	the site typical for	this time	e of year? Y	es	X	No	(If r	no, explain	in Remarks.)					
Are Vegetation	, Soil	, or Hydrology		significant	tly disturbed?		Are "No	ormal Circ	umstances	" present?	Yes	x	No _		
Are Vegetation	, Soil	, or Hydrology		naturally p	problematic?		(If need	ed, expla	n any ans	wers in Remarks	s.)				
Hydrophytic Vege Hydric Soil Preser	tation Present? nt?	Yes _ Yes _	x x	No	s	s the Sam vithin a W	pled Are etland?	a	Yes	X No	·				
Wetland Hydrolog	y Present?	Yes	Х	No	If	f yes, optic	onal Wetl	and Site I	D:	Z					
Remarks: (Explain a PEM wetland loo Identified	alternative proced cated within a de as Wetlan	ures here or in a se epression, adjac d FA-Z on	eparate ent to c wetla	report.) open field a and ma	and railroad b	oed. Wetl	and cor eport	nnects to text.	Stream /	4A.					

Wetland Hydrology Indicators:					Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of o	one is required; check	all tha	t apply)		Surface Soil Cracks (B6)			
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)			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 Aeria	Imagery (B7)		Microtopographic Relief (D4)					
Sparsely Vegetated Conca	ve Surface (B8)				FAC-Neutral Test (D5)			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes No Yes X No Yes X No	X rell, aer	Depth (inches): Depth (inches): 2 Depth (inches): 1 ial photos, previous inspections), if avai	Wetland I	Hydrology Present? Yes <u>X</u> No			
Remarks:								

VEGETATION -	Use scientific	names of plants.
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Sampling Point: DP-Z

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				(i)
3.				Total Number of Dominant Species Across All Strata: 1 (B)
				Percent of Deminant Species
4 5.				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Sanling/Shrub Stratum (Plot size: 15 ft.)				FACW species 90 x 2 = 180
1	_			FAC species 0 $x 3 = 0$
·				FACU species 0 x 4 = 0
2				UPL species 0 x 5 = 0
3				Column Totals: <u>105</u> (A) <u>195</u> (B)
4				Prevalence Index = B/A = 1.85
5			·	
0				Hydrophytic Vegetation Indicators:
/				X 2 - Dominance Test is >50%
	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)	_			4 - Morphological Adaptations ¹ (Provide supporting
1 Typha latifolia	15	No	OBL	data in Remarks or on a separate sneet)
2. Phalaris arundinacea	90	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ 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				We advantage All we advantage an advantage 2 20 ft in
12				height.
	105	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1.				
2				Hydrophytic
				Vegetation
				Present? Tes <u>~</u> No
4				
	0	= Total Cove	er	
Remarks: (Include photo numbers here or on a separate shee	et.)			

SOIL

Profile Descri	ntion: (Describe to the	denth nee	hed to document the	indicator or	confirm th	a absence i	of indicators)		ampling Poli	II. DP-2
Danth	ption: (Describe to the	deptil need			commu		or marcators.			
(inches)	Color (moist)	%	Color (moist)	x Features	Type ¹	$ oc^2 $	Texture	F	emarks	
					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sandy Clay		ternanto	
<u>0-8</u>	10YR 3/1	100		·			Loam			
8-20	10YR 2/1	100					Loam			
				·						
				·						
<u> </u>				·						
				·						·······
1							21 ti		4	
Type: C=Cond	centration, D=Depletion,	RIVI=Reduc	ced Matrix, MS=Maske	d Sand Grair	IS.		-Location: PL=Po	re Lining, iv	a=iviatrix.	
Hydric Soil Ind	dicators:		Polyvoluo Polov	Surface (S9)			Indicators for Prot	blematic Hy	ydric Soils°:	
Histosof (/	nedon (A2)		Folyvalue Below	Surface (So,) (LKK K ,		2 Chi Muck (A	Pedex (A16)/IDDKI	+3D)
Black Hist	tic (A3)		Thin Dark Surfac	e (S9) (I RR	R MIRA	(49B)	5 cm Mucky P	eat or Peat	(S3) (I RR K	
Hvdrogen	Sulfide (A4)		Loamy Mucky M	ineral (F1) (L	RR K. L)		Dark Surface ((LRR #	(00) (Entre in K. L. M)	, _, ``,
Stratified	Layers (A5)		Loamy Gleyed M	latrix (F2)	, _, _,		Polyvalue Belo	ow Surface	(S8) (LRR K	(, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matrix	(F3)			Thin Dark Sur	ace (S9) (L	.RR K, L)	<i>,</i> ,
Thick Dar	k Surface (A12)		Redox Dark Sur	ace (F6)			Iron-Mangane	se Masses	(F12) (LRR I	K, L, R)
Sandy Mu	ucky Mineral (S1)		X Depleted Dark S	urface (F7)			Piedmont Floo	dplain Soils	s (F19) (MLR	A 149B)
Sandy Gle	eyed Matrix (S4)		Redox Depression	ons (F8)			Mesic Spodic	(TA6) (MLR	RA 144A, 148	5, 149B)
Sandy Re	edox (S5)						Red Parent Ma	aterial (F21))	
Stripped N	Matrix (S6)						Very Shallow [Jark Surface	e (TF12)	
Dark Surf	ace (S7) (LRR R, MLRA	A 149B)					Other (Explain	in Remarks	s)	
_										
³ Indicators of h	hydrophytic vegetation a	nd wetland	hydrology must be pre	sent, unless (disturbed o	r problematio	C.			
Restrictive La	yer (if observed):									
Type: None	e									
Depth (inch	nes):						Hydric Soil Present	? Yes	<u> </u>	No
Remarks:										