

Wetland FA-AP, AO, AN - View facing North.



Wetland FA-AP, AO, AN - Soils.

Segment 11 - Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	e	Sampling Date:	November 17, 2021		
Applicant/Owner:	CHA			State:	NY		Sampling Point:	Upl FA-AP, AO, AN		
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill	!			
								Slone (%): 1		
Landform (hillslope,	•	Terrace			f (concave, con	·		Slope (%): 1		
Subregion (LRR or	MLRA):	LRR R		Lat: 42.241932	°N	Long: -73.860157°W		Datum: NAD83		
Soil Map Unit Name	e: NrD - Nassau	u channery silt loai	m, hilly, very ro	cky		NWI cla	ssification: Not N	Mapped		
Are climatic / hydro	logic conditions or	the site typical fo	r this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)			
Are Vegetation _	, Soil	, or Hydrology	signi	ificantly disturbed	? 4	re "Normal Circumstances	" present?	Yes X No		
	, Soil					f needed, explain any ansv	vers in Remarks.)			
SUMMA	ARY OF FIND	NGS – Attacl	າ site map ເ	showing sam	pling point	locations, transect	s, important f	features, etc.		
Hydrophytic Vege	etation Present?	Yes	No	Х	Is the Sample	ed Area				
Hydric Soil Prese		-	No		within a Wetl		No _	X		
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:				
HYDROLOGY										
	Indicatora					Sacanda	Indiantoro (minir	of two required)		
Wetland Hydrolo						-		num of two required)		
	s (minimum of one	is requirea; cneck		Or desired Legues //	20)		Soil Cracks (B6)			
	Surface Water (A1) Water-Stained Leaves (B9)						ge Patterns (B10)			
High Water Saturation (A				c Fauna (B13) eposits (B15)		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks				gen Sulfide Odor ((C1)	Crayfish Burrows (C8)				
Sediment De				ed Rhizospheres	· · · · · ·					
Drift Deposit	. ,			nce of Reduced Iro	=	Stunted or Stressed Plants (D1)				
Algal Mat or				t Iron Reduction in		<u> </u>				
Iron Deposit	, ,			uck Surface (C7)		Shallow Aquitard (D3)				
	isible on Aerial Im	agery (B7)	Other ((Explain in Remar	·ks)	Microtopographic Relief (D4)				
Sparsely Ve	getated Concave S	Surface (B8)	_				eutral Test (D5)			
Field Observatio	ns:									
Surface Water Pr	esent?	Yes No	X Depth	(inches):						
Water Table Pres	ent?	Yes No	X Depth	(inches):		Wetland Hydrology P	resent? Yes	No <u>X</u>		
Saturation Preser		Yes No	X Depth	(inches):						
(includes capillary		-141	" :-!	*	\ 1611	••				
Describe Recorde	ed Data (stream ga	auge, monitoring w	vell, aeriai pnoto	os, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hyd	rology present a	ıt data point								

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:				
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)			
2.				mat Are Obl., I AOW, OF I AO.	(A)			
3.				Total Number of Dominant Species Across All Strata:	2 (B)			
					(5)			
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)			
5					`` ′			
6				Prevalence Index worksheet:				
7		T		Total % Cover of:	Multiply by:			
	0	= Total Cover			x 1 = 0			
Sapling/Shrub Stratum (Plot size: 15 ft.)				· ·	$x 2 = \frac{0}{x 3 = 30}$			
1		-			x = 4 = 360			
2				UPL species 0	x 5 = 0			
3					(A) 390 (B)			
4								
5				Prevalence Index = B/A = 3.	9			
6				Hydrophytic Vegetation Indicate	ors:			
7				1 - Rapid Test for Hydrophytic Vegetation				
		T-4-1 0		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹				
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations	s ¹ (Provide supporting			
Solidago canadensis	60	Yes	FACU	data in Remarks or on a s				
Lolium perenne	20		FACU	Problematic Hydrophytic Veg	etation ¹ (Explain)			
3. Plantago lanceolata			FACU	¹ Indicators of hydric soil and wetla				
Galium boreale			FAC	be present, unless disturbed or pro				
	10	No	FAC	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				Sapling/shrub – Woody plants les	_			
0				and greater than or equal to 3.28 f				
9				Herb – All herbaceous (non-wood)				
10				size, and woody plants less than 3	,,,			
11				Woody vines – All woody vines gr	eater than 3.28 ft in			
12				height.	54.67 t.1417 51 <u>2</u> 5 tt.111			
	100	= Total Cover						
Woody Vine Stratum (Plot size: 30 ft.)								
1								
2.				Hydrophytic				
3				Vegetation Present? Yes	NoX			
4				Tresent: Tes	NO			
4		T 0						
D 1 (1 1 1 1 1 1 1 1 1	0	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation found at data point								

Sampling Point: DP-AO-Upland

SOIL Upland Sampling Point: DP-AO-

Profile Descri	ption: (Describe to the	depth need	ed to document the i	ndicator or	confirm th	ne absence	of indicators.)			
							,			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type ¹	Loc ²	Texture	Remarks		
(inches)	Color (moist)	70	Color (moist)		Турс		Texture	Remaiks		
0-8	10YR 3/3	100					Silt Loam	Bedrock		
								-		
					·	· <u> </u>	-			
1 _{Type} : C=Con	centration, D=Depletion,	PM-Paduc	ad Matrix MS-Mackey	d Sand Grain	ne		2Location:	: PL=Pore Lining, M=Matrix.		
Type. C=Con	bentiation, D-Depletion,	TXIVI—IXEGUO	ed Matrix, MO=Masket	J Garia Gran	13.					
Hydric Soil In	dicators:							for Problematic Hydric Soils ³ :		
Histosol (A1)		Polyvalue Below	Surface (S8) (LRR R,		2 cm M	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 Surface	e (S9) (LRR	R. MLRA	149B)		Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)								Surface (S7) (LRR K, L, M)		
		•			.KK K, L)					
	Layers (A5)		Loamy Gleyed Ma					llue Below Surface (S8) (LRR K, L)		
Depleted	Below Dark Surface (A1	1) .	Depleted Matrix (F3)			Thin D	ark Surface (S9) (LRR K, L)		
Thick Dark Surface (A12)			Redox Dark Surfa	ace (F6)			Iron-Ma	anganese Masses (F12) (LRR K, L, R)		
Sandy Mucky Mineral (S1)			Depleted Dark Su	ırface (F7)			Piedmo	ont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gleyed Matrix (S4)			Redox Depression					Spodic (TA6) (MLRA 144A, 145, 149B)		
		•	Redox Depression	113 (1 0)						
Sandy Re								arent Material (F21)		
Stripped I	Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Surf	ace (S7) (LRR R, MLRA	149B)					Other (Explain in Remarks)			
_ 							<u> </u>			
3										
Indicators of h	nydrophytic vegetation ar	nd wetland h	lydrology must be pres	sent, unless	disturbed o	r problemati	C.			
Restrictive La	yer (if observed):									
Type: Bedi	rock									
Depth (incl	200): 0						Hudria Cail E	Present? Yes No X		
Deptil (Inci	ies). o						Hydric Soil F	resent res No X	—	
Remarks:										
No hydric soils pr	esent at data point									

No Photo

Upland AO- View facing -



Wetland FA-AP, AO, AN - Soils.

Segment 11 - Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Cour	nty: Greene	9	Sampling D	Pate: November 17, 2021		
Applicant/Owner:	CHA State: N				NY		Sampling Po	oint: Wet FA-AP, AO, AN		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range:	: Catskill				
Landform (hillslope,		Depression			ef (concave, conv	•	Concave	Slope (%): 1		
Subregion (LRR or	•	LRR R		Lat: 42.239346		Long: -73.86147		Datum: NAD83		
	-		····	Lat. 72.200010) IN	.011g73.001-17				
Soil Map Unit Name		ton and Madalin soil		-0.1/2	V No	/lf no		Not Mapped		
Are climatic / hydrol	ū	• •					o, explain in Remarks.)			
		, or Hydrology					mstances" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	na	turally problematic?	? (If	needed, explain	any answers in Rema	arks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	locations, tr	ansects, import	ant features, etc.		
Hydrophytic Vege	etation Present?	Yes	X No	0	Is the Sample	ed Area				
Hydric Soil Prese		Yes	X No	0	within a Wetla		Yes X	No		
Wetland Hydrolog	gy Present?	Yes	X No	0	If yes, optional	l Wetland Site ID	: <u>AN</u>			
HYDROLOGY										
Wetland Hydrolo	oay Indicators:						Secondary Indicators	(minimum of two required)		
_		e is required; check	all that apply	v)			Surface Soil Cracks			
Surface Wat	•	10.124		er-Stained Leaves (I	(B9)	x	X Drainage Patterns (B10)			
X High Water				atic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	43)		Marl	Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks	-			ogen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De			·	ized Rhizospheres						
Drift Deposit				ence of Reduced In	-	Stunted or Stressed Plants (D1)				
Algal Mat or Iron Deposits	` '			ent Iron Reduction in Muck Surface (C7)	•	(C6) X Geomorphic Position (D2) Shallow Aquitard (D3)				
	s (B3) /isible on Aerial Im	nagery (B7)		r (Explain in Remar		X	Microtopographic Re			
	getated Concave			Г (Елрісііі і і і і і і	ino,	_	FAC-Neutral Test (D			
Field Observatio										
Surface Water Pre		Yes X No	Dep	oth (inches): 5						
Water Table Pres	ent?	Yes X No				Wetland Hydr	rology Present?	Yes X No		
Saturation Presen		Yes No _	X Dep	th (inches):						
(includes capillary Describe Recorde	<u> </u>	auge, monitoring we	ell aerial pho	otos previous inspe	ections), if availa	ahle.				
	74 E 444 (E I I	augo,o	on, ao _F	700, p. 01. 222		ibic.				
Remarks:										

Absolute		Indicator	Dominon - T	t worksha - t			
% Cover	Species?	Status	Dominance Test				
						1	(A)
			T. IN .	ъ			
						1	(B)
							 ` ′
						100	(A/
			,				
			Prevalence Inde	ex worksheet:			
			Total % Cov	ver of:	М	ultiply by:	_
0	= Total Cover		OBL species	15	x 1 =	15	
			FACW species	90	x 2 =	180	
			FAC species	0	x 3 =	0	
			FACU species	0	x 4 =	0	
			UPL species	0	x 5 =	0	
			Column Totals:	105	(A)	195	(E
			Prevalence	e Index = B/A =	1.85		
			Hydrophytic Ve	getation Indica	tors:		
					_	tation	
0	= Total Cover					vida aupparti	na
							ng
90	Yes	FACW					
15	No	OBL	Problemation	Hydrophytic Ve	egetation	¹ (Explain)	
			¹ Indicators of hyd	dric soil and wet	tland hyd	rology must	
			be present, unles	ss disturbed or p	oroblemat	tic.	
			Definitions of V	egetation Strat	a:		
				_		ro in diamento	_
				=			1
				. ,. ,	_	,	
			and greater than	or equal to 3.20) II (I III)	lall.	
							of
			size, and woody	plants less than	1 3.28 ft ta	all.	
				All woody vines	greater th	nan 3.28 ft in	
			neight.				
105	= Total Cover						
			Hydrophytic				
			_	Vor	X	lo.	
			i resent :	169	N	. -	
	= Total Cove	r	Ī				
				Number of Domi That Are OBL, F. Total Number of Species Across of	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 15 FACW species 90 FAC species 0 UPL species 0 Column Totals: 105 Prevalence Index = B/A = Hydrophytic Vegetation Indica X 1 - Rapid Test for Hydrophy X 2 - Dominance Test is >50; X 3 - Prevalence Index is \$\$3\$, A - Morphological Adaptatic data in Remarks or on a second and we be present, unless disturbed or problematic Hydrophytic Vegetation Strat Tree - Woody plants 3 in. (7.6 c at breast height (DBH), regardle: Sapling/shrub - Woody plants I and greater than or equal to 3.2t Herb - All herbaceous (non-woosize, and woody plants less than Woody vines - All woody vines height. Hydrophytic Vegetation	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: MOBL species 15 x1 = FACW species 90 x2 = FAC species 0 x3 = FACU species 0 x4 = UPL species 0 x4 = Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation A - Morphological Adaptations (Prodata in Remarks or on a separate of the species of	Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 1 Percent of Dominant Species Across All Strata: 1 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 Prevalence Index workseet: Total % Cover of: Multiply by: OBL species 15

SOIL Sampling Point: DP-AN Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/2 95 7.5YR YR Clay 7.5YR 5/6 10YR 3/2 70 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 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 Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland FA-AP, AO, AN - View facing North.



Wetland FA-AP, AO, AN - Soils.

Segment 11 - Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Green	ie	Sampling Date:	November 17, 2021		
Applicant/Owner:	CHA			State:	NY		Sampling Point:	Upl FA-AP, AO, AN		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	e: Catskill	•			
		Depression			f (concave, con			Slope (%): 2		
Landform (hillslope,	•				·					
Subregion (LRR or	-	LRR R		Lat: 42.239384	<u>°N</u>	Long: -73.861389°W		Datum: NAD83		
Soil Map Unit Name	e: Co - Coving	ton and Madalin so	oils			NWI cla	assification: Not I	Mapped		
Are climatic / hydrol	logic conditions or	n the site typical for	this time of year	ar? Yes	X N	lo (If no, explain	in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	? A	Are "Normal Circumstances	s" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain any ans	wers in Remarks.)			
SUMMA	ARY OF FIND	INGS – Attach	າ site map s	showing sam	pling point	t locations, transect	ts, important	features, etc.		
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	od Aroa	,			
Hydric Soil Prese		_	No		within a Wetl		No	X		
Wetland Hydrolog		_	No		If ves. options	al Wetland Site ID:		_		
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					Seconda	ry Indicators (minir	mum of two required)		
Primary Indicators	s (minimum of one	e is required; check	all that apply)			Surface	e Soil Cracks (B6)			
Surface Wat	er (A1)		Water-S	B9)	Draina	ge Patterns (B10)				
High Water	Table (A2)		Aquatic	c Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	<i>†</i> 3)		Marl De	eposits (B15)		Dry-Season Water Table (C2)				
Water Marks				gen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De				ed Rhizospheres	_					
Drift Deposit				ce of Reduced Iro	, ,	Stunted or Stressed Plants (D1)				
Algal Mat or	` '			Iron Reduction in	•	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits		/D7\		uck Surface (C7)		Shallow Aquitard (D3) Microtopographic Relief (D4)				
	/isible on Aerial Im getated Concave :		Oulei (i	Explain in Remar	KS)		eutral Test (D5)	D4)		
Field Observatio		, .				_				
Surface Water Pre		Yes No	X Depth	(inches):						
Water Table Pres		Yes No				Wetland Hydrology P	resent? Yes	No X		
Saturation Preser		Yes No								
(includes capillary										
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aerial photo	s, previous inspe	ections), if availa	able:				
Remarks: No wetland hydi	rology present a	at data point								

Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0
Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: O Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species O FACW species O FAC species O FAC species O FACU species O Column Totals: 100 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU FACU FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Percent of Dominant Species That Are OBL, FACW, or FAC: O Prevalence Index worksheet: Total % Cover of: OBL species O
Percent of Dominant Species That Are OBL, FACW, or FAC: O Prevalence Index worksheet: Total % Cover of: OBL species O
That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 100 x4 = 400 UPL species 0 x5 = 0 Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 100 x4 = 400 UPL species 0 x5 = 0 Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU FACU Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU FACU FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Column Totals: 100 (A) 400 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACU A - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
data in Remarks or on a separate sheet) FACU Problematic Hydrophytic Vegetation ¹ (Explain) FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACU Problematic Hydrophytic Vegetation ¹ (Explain) FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.
be present, unless disturbed or problematic
FACU
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter
at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH
and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of
size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.
neight.
Hydrophytic
Vegetation
Present? Yes NoX

Sampling Point: DP-AN-Upland

SOIL Upland Sampling Point: DP-AN-

	ption: (Describe to the	depth need			confirm t	ne absence	of indicators.)				
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Rer	marks		
			Color (moist)	70	1900			TKE	nano		
0-16	10YR 3/2	100				-	Silty Clay Loam				
16-20	10YR 3/2	85	7.5YR 5/6	15	<u>C</u>	M	Clay				
		· <u></u>									
¹ Type: C=Con	centration, D=Depletion	, RM=Reduc	ced Matrix, MS=Maske	d Sand Grai	ns.		² Location:	PL=Pore Lining, M=I	Matrix.		
Hydric Soil In			5 5.	0 ((0				or Problematic Hydr			
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B)								uck (A10) (LRR K, L			
	Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)						Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)						Dark Surface (S7) (LRR K, L, M)				
Stratified Layers (A5) Loamy Gleyed Matrix (F2)							Polyvalu	ue Below Surface (S	8) (LRR K, L)		
Depleted Below Dark Surface (A11)			Depleted Matrix					rk Surface (S9) (LRI			
Thick Dark Surface (A12)			Redox Dark Surf Depleted Dark S				Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)				
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Re			Redox Depression) iis (i o)				rent Material (F21)	1444, 143, 1430)		
	Matrix (S6)							allow Dark Surface (TF12)		
Dark Surf	ace (S7) (LRR R, MLR	A 149B)					Other (Explain in Remarks)				
	nydrophytic vegetation a	and wetland	hydrology must be pre	sent, unless	disturbed o	r problemat	tic.				
	yer (if observed):										
Type: None Depth (inch							Hydric Soil P	racant? Vac	No X		
	165).						Hydric Soil Fi	esentr res	NO <u>X</u>		
Remarks: No hydric soils pr	resent at data point										



Upland FA-AP, AO, AN - View facing North.



Upland FA-AP, AO, AN - Soils.

Segment 11 - Package 7A

SITE PHOTOGRAPHS

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: Catskill	/ Greene County	Sampling Date: 1/31/23		
Applicant/Owner: TDI			State: NY	Sampling Point: FA-AP, AO, AN Wet		
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): depression	Local re	elief (concave, conve	ex, none): concave	Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 42-14-19.04N	•	73-51-41.08W	 Datum: WGS84		
Soil Map Unit Name: Covington and Madalin S			NWI classification:	PFO		
Are climatic / hydrologic conditions on the site t		Yes x		explain in Remarks.)		
Are Vegetation , Soil , or Hydrolo	,,		mal Circumstances" prese	•		
			•			
Are Vegetation, Soil, or Hydrolo			d, explain any answers in	·		
SUMMARY OF FINDINGS – Attach s	ite map snowing samp	oling point loca	tions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No		
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: near flag	21B		
Remarks: (Explain alternative procedures here						
Wetland FA-AP, AO, AN. Red maple hardwoo	d swamp.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is required	d; check all that apply)		Surface Soil Cracks			
X Surface Water (A1)	X Water-Stained Leaves (B9	9)	Drainage Patterns (I			
X High Water Table (A2)	Aquatic Fauna (B13)	-,	Moss Trim Lines (B	•		
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C	(C1) Crayfish Burrows (C8)				
Sediment Deposits (B2)	X Oxidized Rhizospheres on	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron	Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Position	n (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	s)	Microtopographic Re	elief (D4)		
Sparsely Vegetated Concave Surface (B8	·)		X FAC-Neutral Test (D	05)		
Field Observations:						
	No Depth (inches): _	2				
	No Depth (inches): _	8				
	No Depth (inches): _	0 Wetlan	d Hydrology Present?	Yes <u>X</u> No		
(includes capillary fringe)	" ' bataa nray	· ···· in an artional if	- 9 - 1.1			
Describe Recorded Data (stream gauge, moni	toring well, aerial priolos, previ	Tous inspections), ii	avaliable:			
Remarks:						

VEGETATION – Use scientific names of plants.

			.	1			
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
Quercus bicolor	55	Yes	FACW	Number of Dominant Species			
2. Fraxinus pennsylvanica	25	Yes	FACW	That Are OBL, FACW, or FAC:6 (A)			
3.				Total Number of Dominant			
l				Species Across All Strata: 6 (B)			
j				Percent of Dominant Species			
). 				That Are OBL, FACW, or FAC: 100.0% (A/B)			
,				Prevalence Index worksheet:			
	80	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')				OBL species55 x 1 =55			
. Cornus amomum	25	Yes	FACW_	FACW species 150 x 2 = 300			
2. Quercus bicolor	5	No No	FACW	FAC species0 x 3 =0			
3. Fraxinus pennsylvanica	10	Yes	FACW	FACU species 0 x 4 = 0			
l				UPL species0 x 5 =0			
j				Column Totals: 205 (A) 355 (B)			
S				Prevalence Index = B/A =1.73			
·				Hydrophytic Vegetation Indicators:			
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%			
. Alisma triviale	15	No	OBL	X 3 - Prevalence Index is ≤3.0 ¹			
2. Onoclea sensibilis	30	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting			
3. Carex stricta	40	Yes	OBL	data in Remarks or on a separate sheet)			
l				Problematic Hydrophytic Vegetation ¹ (Explain)			
5				¹ Indicators of hydric soil and wetland hydrology must			
5				be present, unless disturbed or problematic.			
,				Definitions of Vegetation Strata:			
3				Tree – Woody plants 3 in. (7.6 cm) or more in			
)				diameter at breast height (DBH), regardless of height.			
0				Sapling/shrub – Woody plants less than 3 in. DBH			
1				and greater than or equal to 3.28 ft (1 m) tall.			
2	-			Herb – All herbaceous (non-woody) plants, regardless			
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in			
i				height.			
2.							
3.				Hydrophytic Vegetation			
l.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a sep	arate sheet \	_		1			
tomarks. (molade prioto numbers here of on a sep	a.a.c 311001.)						

SOIL Sampling Point: FA-AP, AO, AN Wet

Depth	Matrix	o the de		ox Featur		ator or co	onfirm the absence o	n maicators.)		
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks		
0-10	10YR 3/1	95	7.5YR 3/4	5	C	PL/M	Loamy/Clayey	Prominent redox concentrations		
10-16	10YR 4/1	67	10YR 5/8	25	C	M	Loamy/Clayey	Prominent redox concentrations		
			10YR 2/1	8	C	M		Faint redox concentrations		
				. ——						
		_								
				. —						
				· —						
¹ Type: C=Cd	oncentration, D=Deple	etion, RM	=Reduced Matrix,	MS=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.		
Hydric Soil I Histosol			Dark Surface	(S7)				for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B)		
—— Histic Ep	pipedon (A2)		Polyvalue Bel	ow Surfa	ce (S8) (LRR R,		Prairie Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3)		MLRA 149E	3)			5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)		
— Hydroge	n Sulfide (A4)		Thin Dark Sur	face (S9) (LRR R	, MLRA 1		ue Below Surface (S8) (LRR K, L)		
	Layers (A5)		— High Chroma					ark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Mucky					inganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)	(****)	Loamy Gleyed			, _,		ont Floodplain Soils (F19) (MLRA 149B)		
	oodic (A17)		X Depleted Matr		/			rent Material (F21) (outside MLRA 145)		
	A 144A, 145, 149B)		X Redox Dark S		- 6)			nallow Dark Surface (F22)		
	lucky Mineral (S1)		Depleted Dark	•			Other (Explain in Remarks)			
	ileyed Matrix (S4)		Redox Depres		, ,			- 		
	edox (S5)		Marl (F10) (LF	•	- ,		³ Indicators of hydrophytic vegetation and			
	Matrix (S6)		Red Parent M		21) (ML	RA 145)	wetla	nd hydrology must be present, s disturbed or problematic.		
Restrictive I	_ayer (if observed):									
Type:	none	•								
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No		
Remarks:										



Wetland FA-AO, AP, AN (21B) - View facing north.



Wetland FA-AO, AP, AN (21B) - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

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: Catskill	/ Greene County	Sampling Date: 1/31/23				
Applicant/Owner: TDI			State: NY	Sampling Point: FA-AO, AP, AN UPI				
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:					
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	x, none): none	Slope %: 0				
Subregion (LRR or MLRA): LRR R	Lat: 42-14-18.86N	•	73-51-41.08W	 Datum: WGS84				
Soil Map Unit Name: Covington and Madalin			NWI classification:	n/a				
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)				
Are Vegetation , Soil x , or Hydrol			nal Circumstances" prese	,				
			d, explain any answers in					
Are Vegetation, Soil, or Hydrol SUMMARY OF FINDINGS – Attach				•				
SUMMART OF TINDINGS - Attach	The map showing same		tions, transects, iii	iportant leatures, etc.				
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea					
Hydric Soil Present?	Yes No							
Wetland Hydrology Present?	Yes No _X	If yes, optional We	tland Site ID: near flag	21B				
Remarks: (Explain alternative procedures he	re or in a separate report.)							
Upland FA-AO, AP, AN. Disturbed fill area.								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)				
Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B					
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water					
— Water Marks (B1)	Hydrogen Sulfide Odor (C							
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Position					
Iron Deposits (B5)	Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (Bi	· · · ·	.s)	FAC-Neutral Test (I					
Field Observations:				55)				
Surface Water Present? Yes	No x Depth (inches):							
Water Table Present? Yes	No x Depth (inches):							
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No _X_				
(includes capillary fringe)	,		w 11, a. e. e g,					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:					
	•	•						
Remarks:				 -				

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				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:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species0 x 1 =0
1.				FACW species0 x 2 =0
2.				FAC species10 x 3 =30
3.				FACU species15 x 4 =60
4.				UPL species 60 x 5 = 300
5.				Column Totals: 85 (A) 390 (B)
6.				Prevalence Index = B/A = 4.59
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Artemisia vulgaris	60	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Setaria pumila	10	No	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Solidago canadensis	15	No	FACU	data in Remarks or on a separate sheet)
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.				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
	85	=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.				noight.
				Hydrophytic
				Vegetation
4.		-Tatal Cavan		Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: FA-AO, AP, AN Upl

SOIL Sampling Point: FA-AO, AP, AN Upi

Profile Desc	ription: (Describe to	o the de	pth needed to doci	ument t	he indica	tor or co	onfirm the absence of indicators.)	
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture R	emarks
	-							
								_
								
							-	_
	ncentration, D=Deple	etion, RM	I=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	² Location: PL=Pore Lining, N	
Hydric Soil I							Indicators for Problematic I	=
Histosol ((A1)		Dark Surface (S7)			2 cm Muck (A10) (LRR K	(, L, MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	Coast Prairie Redox (A16	6) (LRR K, L, R)
Black His	stic (A3)		MLRA 149B	6)			5 cm Mucky Peat or Peat	(S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9) (LRR R,	MLRA 1	49B) Polyvalue Below Surface	(S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	S11) (LRF	R K, L)	Thin Dark Surface (S9) (I	_RR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) (LRF	R K, L)	Iron-Manganese Masses	(F12) (LRR K, L, R)
	rk Surface (A12)	, ,	Loamy Gleyed			. ,	Piedmont Floodplain Soil	
	odic (A17)		Depleted Matri		,		Red Parent Material (F21	
I —	A 144A, 145, 149B)		Redox Dark Su		-6)		Very Shallow Dark Surface	
	ucky Mineral (S1)		Depleted Dark				Other (Explain in Remark	
	leyed Matrix (S4)		Redox Depress				Other (Explain in Remark	,
	edox (S5)		Marl (F10) (LR	•	0)		³ Indicators of hydrophytic	vogotation and
					.04) (MI E	0		
— Suipped	Matrix (S6)		Red Parent Ma	ateriai (F	(VIL	(A 145)	wetland hydrology mus	
Do atalogica I	('f - b 1)						unless disturbed or pro	biematic.
	ayer (if observed):							
Type: _	fill							
Depth (in	ches):	0					Hydric Soil Present? Yes	No
Remarks:							Į.	
Fill area, no s	oils taken.							



Upland FA-AO, AP, AN (21B Upl) - View facing south.



Upland FA-AO, AP, AN (21B Upl) - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene	e	Samplii	ng Date:	June 9, 2022	
Applicant/Owner:	CHA			State:	NY		Samplir	ng Point:	DP-AC	
Investigator(s):	Tristen Peterson	<u> </u>		Section, To	ownship, Range	e: Catskill				
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%): 1	_
Subregion (LRR or I	•	LRR R		Lat: 42.235877°	•	Long: 73.86290			Datum: NAD83	
• ,				Lat. 42.200011	<u>-N</u> .	LONG: 13.00280		Not N		
Soil Map Unit Name		ton and Madalin soi					NWI classification		Mapped	_
Are climatic / hydrol	_	• •	-				o, explain in Rema			
		, or Hydrology				re "Normal Circu	mstances" presen	t? '	Yes <u>X</u> No	_
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, explain	any answers in R	temarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, tr	ransects, imp	ortant f	eatures, etc.	
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	X No		within a Wetl		Yes X	No		
Wetland Hydrolog		Yes	X No	-	If yes, optiona	al Wetland Site ID): AC			_
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					_	Secondary Indicat	tors (minin	num of two required)	-
Primary Indicators	minimum of one) د	e is required; check	all that apply)				Surface Soil Cra			
Surface Water				-Stained Leaves (E	B9)	<u>X</u>	•			
X High Water T				ic Fauna (B13)		_	Moss Trim Lines			
X Saturation (A	-		' <u></u>	Deposits (B15)		_	Dry-Season Wa		(C2)	
Water Marks				gen Sulfide Odor ((00)	Crayfish Burrow			
Sediment De				ed Rhizospheres once of Reduced Iro	=	(C3)	Saturation Visible Stunted or Stres			
Drift Deposits Algal Mat or				nce of Reduced Iron It Iron Reduction in	` '	(6) X	-		,	
Iron Deposits	, ,			luck Surface (C7)	•	0)	Shallow Aquitare			
	/isible on Aerial Im	ladery (B7)	_	(Explain in Remark			Microtopographi		D4)	
	getated Concave S	. , ,	_	(= , 1b +	,	_	FAC-Neutral Te		,	
Field Observation										
Surface Water Pre	esent?	Yes No	X Depth	ı (inches):						
Water Table Prese	ent?	Yes X No	Depth	ı (inches): 1		Wetland Hyd	rology Present?	Yes	X No	_
Saturation Presen		Yes X No	Depth	ı (inches): 1						
(includes capillary		itoring w	" - arial phot	Inone	tia) if eveils	11=:				
Describe Recorde	d Data (Stream ga	auge, monitoring we	ell, aeriai priou	os, previous irispe	etions), ii avalia	able:				
Remarks:										
Wetland hydrolo	ogy present at th	ie Data Point.								

bsolute	D · · ·						
% Cover	Dominant I Species?	Indicator Status	Dominance Test				
30	Yes	FACW	Number of Domir That Are OBL, FA			6	_(A)
			Total Number of Species Across A			6	(B)
			That Are OBL, FA	ACW, or FAC:		100	(A/B
					Mul	tiply by:	
30 =	Total Cover		OBL species	20	x 1 = 2	20	
			FACW species	100	x 2 = 2	200	
25	Voc	FAC	FAC species				
			FACU species	10	x 4 = 4	10	
	Yes	FAC	UPL species	0	x 5 = 0)	
			Column Totals:	165	(A) :	365	(B
			Prevalence	e Index = B/A = 2	2.21		
			Hydrophytic Ve	getation Indicat	ors:		
			1 - Rapid Te	est for Hydrophyt	tic Vegeta	tion	
35 :	= Total Cover						
							ıg
30	Yes	FACW	data iii r	Remarks of on a	Separate	sneet)	
40	Yes	FACW					
20	Yes	OBL					
		FACU	be present, unles	ss disturbed or pr	roblematio). 	
			Definitions of Vo	egetation Strata	1:		
				•			-
				_	_		
							of
				All woody vines g	reater tha	ın 3.28 ft in	
100 :	= Total Cover						
			Hydrophytic				
			Vegetation				
			Present?	Yes _	X No	·	
0	= Total Cover	r					
	35 = 30	30 = Total Cover 25	30 = Total Cover 25	Species Across A Percent of Domir That Are OBL, F, Prevalence Inde	Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 20 FACW species 100 FAC species 35 FACU species 0 Column Totals: 165 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophytix 2 - Dominance Test is >50% X 2 - Prevalence Index is \$3.0 4 - Morphological Adaptation data in Remarks or on a Problematic Hydrophytic Ve 10 No FACU Definitions of Vegetation Strata Tree – Woody plants 3 in. (7.6 cn at breast height (DBH), regardles Sapling/shrub – Woody plants le and greater than or equal to 3.28 Herb – All herbaceous (non-wood size, and woody plants less than Woody vines – All woody vines gheight.	Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Mul OBL species 20 x1 = 2 FACW species 100 x2 = 2 FAC species 35 x3 = 1 FAC UPL species 10 x4 = 4 UPL species 0 x5 = 0 Column Totals: 165 (A) 3 Prevalence Index = B/A = 2.21 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegeta X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Providata in Remarks or on a separate Wes FACW Problematic Hydrophytic Vegetation¹ 1 Indicators of hydric soil and wetland hydrobe present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more at breast height (DBH), regardless of height Sapling/shrub - Woody plants less than 3 and greater than or equal to 3.28 ft (1 m) te Herb - All herbaceous (non-woody) plants size, and woody plants less than 3.28 ft tall Woody vines - All woody vines greater than height. Hydrophytic Vegetation Hydrophytic Vegetation	Species Across All Strata: 6

SOIL Sampling Point: DP-AC Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) Texture Remarks 0-11 10YR 3/1 80 10YR 5/6 Clay 10YR 6/6 10YR 4/1 70 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PFO Wetland AC- View facing North.



PFO Wetland AC- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Hud	son Express			City/Coun	nty: Green	е		Sampling Date:	June 9, 2022	
Applicant/Owner:	CHA				State:	NY			Sampling Point:	DP-AC-Upland	d
Investigator(s):	Tristen Petersor	n			Section, To	ownship, Range	e: Catskill				
Landform (hillslope		Terrace			Local relief	f (concave, con	vex none).	Convex		Slope (%):	2
		LRR R				•	,			Datum: NAD8	
Subregion (LRR or	•				Lat: 42.235862°	IN I	Long: 73.863				50
Soil Map Unit Nam	e: - Covington	and Madalin soils						NWI class	sification: Not N	Mapped	
Are climatic / hydro	ologic conditions of	n the site typical fo	r this time	of year	r? Yes	X No	o (If	f no, explain ii	n Remarks.)		
Are Vegetation _	, Soil	, or Hydrology		signific	cantly disturbed	? A	re "Normal Cir	rcumstances"	present?	Yes X No	0
Are Vegetation _	, Soil	, or Hydrology		_natura	ally problematic?	? (I'	f needed, expla	ain any answ	ers in Remarks.)		
SUMM	ARY OF FIND	DINGS – Attach	h site m	ap sh	nowing sam	ıpling point	locations,	, transects	s, important f	eatures, etc	
Hydrophytic Vog	otation Bracont?	Voc		No	Y	lo the Sample	ad Araa				
Hydrophytic Vego Hydric Soil Prese		Yes _ Yes		No _ No	X	Is the Sample within a Wetl		Yes _	No	Х	
Wetland Hydrolog		Yes		No _	X	If yes options	al Wetland Site	- ال			
		dures here or in a s		_		li yes, optiona	II Welianu ono	. טוי.			
HYDROLOGY				<u> </u>							
Wetland Hydrolo	ogy Indicators:						-	Secondary	/ Indicators (minim	num of two requir	red)
Primary Indicator	s (minimum of one	e is required; check	call that ar	oply)				Surface	Soil Cracks (B6)		
Surface Wa	ter (A1)		W	ater-St	tained Leaves (E	39)	-	Drainage	e Patterns (B10)		
High Water	Table (A2)		Ad	quatic F	Fauna (B13)		-	Moss Tri	im Lines (B16)		
Saturation (-	posits (B15)		-		son Water Table ((C2)	
Water Mark				-	n Sulfide Odor (-		Burrows (C8)		
_	eposits (B2)				I Rhizospheres of	_	(C3)		on Visible on Aeria		
Drift Deposit	* *				e of Reduced Iro				or Stressed Plants		
Algal Mat or Iron Deposit					ron Reduction in	•	6) _		phic Position (D2)		
	เร (ธอ) Visible on Aerial In	magany (P7)	_		ck Surface (C7) xplain in Remar		-		Aquitard (D3) ographic Relief (D	24)	
	egetated Concave	. ,		TIEL (EX	xpiaiii iii Keiliaii	K5)	-		utral Test (D5)	74)	
Field Observation											
Surface Water Pr		Yes No	X [Depth (i	inches):						
Water Table Pres	sent?	Yes No					Wetland H	lydrology Pre	esent? Yes	No	X
Saturation Prese	nt?	Yes No							•		
(includes capillar											
Describe Record	ed Data (stream g	gauge, monitoring w	vell, aerial	photos.	, previous inspe	ections), if availa	able:				
Remarks:											
	Irology present	at the Data Point	t.								

Sapling/Shrub Stratum (Plot size: 15 ft.)

Herb Stratum (Plot size: 5 ft.)

Tree Stratum (Plot size: 30 ft.) % Cover Species? Status

1. Rhus typhina 10 Yes UPL

 1. Ambrosia artemisiifolia
 90
 Yes
 FACU

 2. Solidago canadensis
 10
 No
 FACU

		s	ampling	Point: DP-AC	C-Upland
T	Dominance Test			_ _	
	Number of Domin That Are OBL, FA			0	(A)
	Total Number of I Species Across A			2	(B)
	Percent of Domin That Are OBL, FA			0	(A/B)
l	Prevalence Inde		N	lultiply by:	
	OBL species	0		0	
	FACW species	0		0	
	FAC species	0		0	
	FACU species	100	_'	400	_
	UPL species	100	x 5 =		
	Column Totals:			450	(R)
	COMMIN TOTALS.	110	_ (A)	450	(B)
	Prevalence	e Index = B/A =	4.09		
	2 - Dominan 3 - Prevalen 4 - Morpholo	ce Index is ≤3.0 ogical Adaptatio temarks or on a Hydrophytic Ve tric soil and wet	6 ns ¹ (Pro separate egetation	vide supportir e sheet) ¹ (Explain) Irology must	ng
	Definitions of Ve Tree – Woody pla at breast height (I Sapling/shrub –	ants 3 in. (7.6 cr DBH), regardles	m) or mo	ght.	r
	and greater than				
	Herb – All herbac size, and woody p	•			of
	Woody vines – A height.	ıll woody vines (greater tl	nan 3.28 ft in	
	Hydrophytic Vegetation Present?	Yes _	N	No <u>X</u>	

3			Present?	Yes	No	Х
4						
	0	= Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)						
No hydrophytic vegetation found at the Data Point.						

100 = Total Cover

Absolute Dominant Indicator

_____ = Total Cover

Woody Vine Stratum (Plot size: 30 ft.)

SOIL Sampling Point: DP-AC-

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture F. O-4 10YR 2/1 100 Clay Taxture F. Clay Clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pore Lining, N. Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, L) Coast Prairie Redox (A16) (LRR K, L) Dark Surface (S7) (LRR K, Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, Stratified Layers (A5) Depleted Below Dark Surface (A11) Pepleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Dark Surface (S9) (LRR K	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2 Location: PL=Pore Lining, N lydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histos Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LR R, MLRA 149B) Thin Dark Surface (S9) (LR R, MLRA 149B) Polyvalue Below Surface (S9) (LR R, MLRA 149B) Polyvalue Below Surface (A12) Redox Dark Surface (F6)	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Clocation: PL=Pore Lining, N *Indicators:* Histosol (A1)	
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Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LIRR R) (Light Polyvalue Below Surface (S9) (LIRR R) (Light Polyva	
ric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators for Problematic Hy Catherine Lagrange	
ric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators for Problematic Hy Corp Hobelatic Hy Coast Prairie Redox (A16) Coast Prairie Redox (A16) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K) Dark Surface (S9) (L Thin Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses	∕I=Matrix.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (L Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses	
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LIRR K, L)	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Dark Surface (S9) (LRR F Polyvalue Below Surface (S9) (LRR F Pol	
Stratified Layers (A5)Loamy Gleyed Matrix (F2)Polyvalue Below SurfaceDepleted Below Dark Surface (A11)Depleted Matrix (F3)Thin Dark Surface (S9) (LThick Dark Surface (A12)Redox Dark Surface (F6)Iron-Manganese Masses	(S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (L Redox Dark Surface (F6) Iron-Manganese Masses	(, L, M)
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses	(S8) (LRR K, L)
	RR K, L)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils	(F12) (LRR K, L, R)
	s (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLR	A 144A, 145, 149B)
Sandy Redox (S5) Red Parent Material (F21	
Stripped Matrix (S6) Very Shallow Dark Surfac	· ·
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remark	s)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
trictive Layer (if observed):	
Type: Compaction	
Depth (inches): 4 Hydric Soil Present? Yes	No <u>X</u>
narks: ald not dig past 4 inches due to compaction, no hydric soils present at the Data Point. Dark soils due to area being adjacen	



Upland AC- View facing North.



Upland AC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	9	Sampling [Date: June	9, 2022
Applicant/Owner:	CHA			State:	NY		Sampling P	Point: DP-E	3C
Investigator(s):	Tristen Peterson	n		Section, To	ownship, Range:	: Catskill			
Landform (hillslope,		Depression		·	f (concave, conv		Concave	Slor	pe (%): 1
	·	LRR R		Lat: 42.229838°	•	ong: 73.86545			um: NAD83
Subregion (LRR or I				Lai: 42.223000	i'iN L	<u>.ong: /ა.იდა⊶ა</u>			III. NADOO
Soil Map Unit Name		and Madalin					NWI classification:	Not Mapped	
Are climatic / hydrole	_		-				o, explain in Remarks		
		, or Hydrology				re "Normal Circu	mstances" present?	Yes	X No
Are Vegetation	, Soil	, or Hydrology	nati	urally problematic?	? (If	needed, explain	any answers in Rem	narks.)	
SUMMA	ARY OF FIND	INGS – Attach	ı site map	showing sam	pling point	locations, tr	ransects, impor	tant featur	es, etc.
Hydrophytic Vege	etation Present?	Yes	X No	,	Is the Sample	ed Area			
Hydric Soil Preser		Yes _	X No		within a Wetla		Yes X	No	_
Wetland Hydrolog		Yes	X No		If yes, optional	l Wetland Site ID): BC		
HYDROLOGY									
Wetland Hydrolo	av Indicators:						Secondary Indicators	/minimum of t	hwo required)
		e is required; check	call that annly	Λ.			Surface Soil Cracks		wo required)
Surface Water		3 15 required, oneon		<i>)</i> r-Stained Leaves (E	R0)	x	_		
X High Water T				tic Fauna (B13)	D9)	<u>~</u>	Moss Trim Lines (B		
X Saturation (A				Deposits (B15)			Dry-Season Water	· ·	
Water Marks	•			ogen Sulfide Odor ((C1)	_	Crayfish Burrows (0		
Sediment De				zed Rhizospheres		(C3)	Saturation Visible o	· ·	ery (C9)
Drift Deposits	s (B3)		Prese	ence of Reduced Iro	on (C4)	<u> </u>	Stunted or Stressed	d Plants (D1)	
Algal Mat or	Crust (B4)		Recer	nt Iron Reduction ir	n Tilled Soils (C6	6) X	Geomorphic Position	on (D2)	
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aquitard (D) 3)	
	isible on Aerial Im		Other	(Explain in Remar	rks)		Microtopographic R		
Sparsely Veg	getated Concave	Surface (B8)				_	FAC-Neutral Test (I	D5)	
Field Observation			¥ 5						
Surface Water Pre		Yes No				·	7	v	
Water Table Prese		Yes X No	·			Wetland Hyd	rology Present?	Yes X	No
Saturation Presen (includes capillary		Yes X No	Debu	n (inches): 2					
		gauge, monitoring w	vell, aerial phot	tos, previous inspe	ections), if availa	able:			
		-		-					
Remarks: Wetland hydrolo	nav present at t	he Data Point.							
Wolland Hydro.c	y procent at a	no Data i cint.							

VEGETATION – Use scientific names of plants.					Sampling Point: DP-BC
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1Juniperus virginiana	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3	<u> </u>			Species Across All Strata:	(B)
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.				Book and the second second	
7				Prevalence Index worksheet Total % Cover of:	: Multiply by:
	10=	= Total Cover		405	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)	-			FACW species 105 FAC species 0	x = 2 = 210 x = 0
1				FACU species 10	<u> </u>
2				UPL species 0	x 5 = 0
3				Column Totals: 115	(A) <u>250</u> (B)
4				Prevalence Index = B/A	= 2.17
5				Hydrophytic Vegetation India	eators:
7				1 - Rapid Test for Hydrop	
				X 2 - Dominance Test is >5	0%
Hark Chature (Plat size 5.41)	0	= Total Cover		X 3 - Prevalence Index is ≤3	
Herb Stratum (Plot size: 5 ft.)	-			4 - Morphological Adapta data in Remarks or or	
Phragmites australis		Yes	FACW	B 11	
Onoclea sensibilis		No	FACW	Problematic Hydrophytic	
3. Impatiens capensis	5	No	FACW	¹ Indicators of hydric soil and w be present, unless disturbed or	
4				Definitions of Vegetation Str	
5				Tree – Woody plants 3 in. (7.6	
7				at breast height (DBH), regard	·
8.				Sapling/shrub – Woody plants and greater than or equal to 3.	
9				Herb – All herbaceous (non-wo	oody) plants, regardless of
10				size, and woody plants less that	an 3.28 ft tall.
12.				Woody vines – All woody vine height.	s greater than 3.28 ft in
	105	= Total Cover		-	
Woody Vine Stratum (Plot size: 30 ft.)	<u>.</u>				
1					
2.				Hydrophytic	
3.				Vegetation Present? Yes	_X No
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet				•	
Hydrophytic vegetation found at the Data Point.	-,				

SOIL Sampling Point: DP-BC Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/2 95 7.5YR 4/6 Clay 0-8 10YR 4/2 7.5YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 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 Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland BC- View facing North.



PEM Wetland BC- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	e	Sampling Date:	June 9, 2022
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-BC-Upland
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	e: Catskill		
Landform (hillslope,		Terrace			f (concave, con			Slope (%): 2
	•				•			Slope (%): 2
Subregion (LRR or I	-	LRR R		Lat: 42.229843	°N	Long: 73.865520°W		
Soil Map Unit Name	: - Covington	and Madalin soils				NWI clas	ssification: Not N	Mapped
Are climatic / hydrol	ogic conditions on	the site typical for	this time of ye	ar? Yes	X N	o (If no, explain	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	? A	re "Normal Circumstances	' present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	f needed, explain any answ	ers in Remarks.)	
SUMMA	ARY OF FIND	INGS – Attach	າ site map ຄ	showing sam	pling point	locations, transect	s, important f	features, etc.
Lludraphytic Vogo	t-tion Drocont?	Vos	No	Y	la the Cample	! A		
Hydrophytic Vege Hydric Soil Preser		_	No No	X	Is the Sample within a Wetl		No _	X
Wetland Hydrolog		_	No		If yes ontions	al Wetland Site ID:		
Remarks: (Explain a					li yes, opiione	II Welland Site ID.		
HYDROLOGY	1					Canada	Listing (mining	-f to mailed
Wetland Hydrolo								num of two required)
		is required; check				· · · · · · · · · · · · · · · · · · ·	Soil Cracks (B6)	
Surface Wate				Stained Leaves (E	B9)		e Patterns (B10)	
High Water T				c Fauna (B13)			rim Lines (B16)	
Saturation (A	•		· <u></u> '	eposits (B15)	(04)		son Water Table ((C2)
Water Marks Sediment De				gen Sulfide Odor (ed Rhizospheres (- · · · · · · · · · · · · · · · · · · ·		n Burrows (C8)	al Imagani (CO)
Drift Deposits				ea Knizospheres once of Reduced Iro	=		on Visible on Aeria or Stressed Plants	
Algal Mat or			_	t Iron Reduction in	` '		phic Position (D2)	
Iron Deposits	, ,		_	luck Surface (C7)	1 111100 000 (2		Aquitard (D3)	
l —	isible on Aerial Im	agery (B7)		(Explain in Remar	·ks)		oographic Relief ([D4)
	getated Concave		_		•	_	eutral Test (D5)	,
Field Observation	ns:							
Surface Water Pre	esent?	Yes No	X Depth	(inches):				
Water Table Prese	ent?	Yes No	X Depth	(inches):		Wetland Hydrology Pr	esent? Yes	No <u>X</u>
Saturation Presen		Yes No	X Depth	(inches):				
(includes capillary			"!-! mb at	· · · · · · · · · · · · · · · · · · ·	" -\ 'f aveils			
Describe Recorde	d Data (Stream ya	auge, monitoring w	⁄eli, aeriai priot	os, previous irispe	ections), ii avaiid	able:		
Remarks:								
No wetland hydr	rology present a	at the Data Point						

Sapling/Shrub Stratum (Plot size: 15 ft.)

1. Ambrosia artemisiifolia

2. Solidago canadensis

Tree Stratum (Plot size: 30 ft.)

1. Rhus typhina

Absolute	Dominant Species?	Indicator	Dominance Tes	t worksheet:			
% Cover	Species?	Status	Number of Domi				
20	Yes	UPL	That Are OBL, F.	ACW, or FAC:		0	(A)
			Total Number of				
			Species Across	All Strata:		3	(B)
			Percent of Domin			0	(A/B)
			That Allo OBE, Th				(/(////
			Prevalence Inde				
20 .	= Total Cover		Total % Co	ver or: 0		ultiply by: 0	
	= Total Cover		· ·	0	_		
			FACW species FAC species	0		0	
			FACU species	65	_	260	
			UPL species	20	-	100	
			Column Totals:	85	(A)	360	(B)
					4.00		
				e Index = B/A =			
			Hydrophytic Ve	_		tation	
				est for Hydrophy nce Test is >509	_	tation	
0	= Total Cover	•		nce Index is ≤3.			
			4 - Morphol	ogical Adaptatio	ons ¹ (Pro	vide suppor	ting
45	Yes	FACU	data in I	Remarks or on a	a separat	e sheet)	
20	Yes	FACU	Problematic	: Hydrophytic V	egetation	¹ (Explain)	
			¹ Indicators of hy				
			be present, unles				•
				-			
			Definitions of V	_			
			Tree – Woody pl at breast height (,	•		ter
			Sapling/shrub - and greater than				
			Herb – All herba size, and woody			_	ss of
			Woody vines –				า
65	= Total Cover		height.				
			Hydrophytic				
			Vegetation				
			Present?	Yes .	N	lo X	_
0	= Total Cove	er					

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation found at the Data Point.

Woody Vine Stratum (Plot size: 30 ft.)

SOIL Sampling Point: DP-BC-

	iption: (Describe to the	depth need			confirm th	e absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type ¹	Loc ²	Texture	Rema	rks
-7	10YR 2/1	100					Loam		
		·							
Type: C=Con	centration, D=Depletion	, RM=Reduc	ed Matrix, MS=Masked	Sand Grain	ns.		² Location: PL=	Pore Lining, M=Ma	ıtrix.
lydric Soil In	dicators:			·		·		roblematic Hydric	_
Histosol (A1)			Polyvalue Below Surface (S8) (LRR R,				2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histic Epipedon (A2)			MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)		
Black Histic (A3)			Thin Dark Surface (S9) (LRR R, MLRA 149B)				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4)			Loamy Mucky Mineral (F1) (LRR K, L)				Dark Surface (S7) (LRR K, L, M)		
Stratified Layers (A5)			Loamy Gleyed Matrix (F2)				Polyvalue Below Surface (S8) (LRR K, L)		
Depleted Below Dark Surface (A11)			Depleted Matrix (F3)				Thin Dark Surface (S9) (LRR K, L)		
Thick Dark Surface (A12)			Redox Dark Surface (F6)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7) Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)			Redux Depressions (i o)				Red Parent Material (F21)		
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)		
Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)		
									
Indicators of h	hydrophytic vegetation a	and wetland I	hydrology must be pres	ent, unless	disturbed o	r problemat	ic.		
	ayer (if observed):								
Type: Com	npaction								
Depth (inches): 7							Hydric Soil Prese	ent? Yes	No <u>X</u>
	g past 7 inches due to		300, 10 1, 410 3010						



Upland BC- View facing North.



Upland BC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huc	Ison Express		City/Coun	ity: Greene		Sampling Date:	August 25, 2022	2
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-GN	
Investigator(s):	Tristen Peterso	ın		Section To	ownship, Range:	Catskill			
					-			Ol (0/):	
Landform (hillslope,		Drainageway			(concave, convex, no			Slope (%):	2
Subregion (LRR or	MLR <u>A):</u>	LRR R		Lat: 42.229173	°N Long:	73.866607°W		Datum: NAD83	<u>, </u>
Soil Map Unit Name	e: <u>Ug- Udorthe</u>	ents, loamy				NWI clas	sification: Not N	Mapped	
Are climatic / hydrol	logic conditions of	on the site typical for	r this time of ye	ear? Yes	X No	(If no, explain i	n Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sigr	nificantly disturbed	? Are "Nor	rmal Circumstances"	present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	nati	urally problematic?	(If neede	ed, explain any answ	ers in Remarks.)		
SUMMA	ARY OF FINE	DINGS – Attach	n site map	showing sam	pling point locat	tions, transects	s, important f	features, etc.	
I budaaa budia Maaa	-4-4' D40	V	V N-		le the Country of Asset	_			
Hydrophytic Vege		Yes _			Is the Sampled Area within a Wetland?		X No		
Hydric Soil Prese Wetland Hydrolog		Yes			If yes, optional Wetla	and Site ID:	SN -		
		dures here or in a s			ii yes, optional wetta	and Site ID.	, , , , , , , , , , , , , , , , , , ,		
HYDROLOGY									
Wetland Hydrolo	ogy Indicators:					Secondary	/ Indicators (minin	num of two required	(k
Primary Indicators	s (minimum of on	e is required; check	all that apply)	1		Surface	Soil Cracks (B6)		
Surface Wat	ter (A1)		Water	-Stained Leaves (E	39)	X Drainage	e Patterns (B10)		
High Water	Table (A2)		Aquati	ic Fauna (B13)		Moss Tri	im Lines (B16)		
Saturation (A	A3)		Marl D	Deposits (B15)		Dry-Sea	son Water Table	(C2)	
Water Marks	s (B1)		Hydro	gen Sulfide Odor (C1)	Crayfish	Burrows (C8)		
Sediment De				•	on Living Roots (C3)		on Visible on Aeria		
Drift Deposit	-			nce of Reduced Iro			or Stressed Plant		
Algal Mat or				t Iron Reduction in	Tilled Soils (C6)		phic Position (D2))	
Iron Deposits				fuck Surface (C7)	lso)		Aquitard (D3)	24)	
	/isible on Aerial li getated Concave	. , ,	Other	(Explain in Remar	KS)		ographic Relief (I utral Test (D5)	J4)	
		Currace (Bo)				17.0 110	utiai Test (Do)		
Field Observation Surface Water Pro		Yes No	X Denti	n (inches):					
Water Table Pres		Yes No	·		Wet	tland Hydrology Pre	esent? Yes	X No	
Saturation Preser		Yes No							
(includes capillary				(
Describe Recorde	ed Data (stream (gauge, monitoring w	ell, aerial phot	os, previous inspe	ections), if available:				
Remarks:									
Wetland hydrolo	ogy present at	the Data Point.							

Absolute % Cover		Indicator	Dominance Test	t worksheet:			
70 0010.	<u> </u>	<u> </u>					(4)
			That Are OBL, FA	ACW, or FAC:		1	(A)
							<i>(</i> =)
			Species Across A	All Strata:		1	(B)
						400	/ A /F
			That Are OBL, F	ACVV, OF FAC:		100	(A/E
			Prevalence Inde	x worksheet:			
					M	ultiply by:	_
0	= Total Cover		OBL species	10	x 1 =	10	
			FACW species	90			
					•		
					_		
			Column Totals:	100	_ (A)	190	(B
			Prevalence	e Index = B/A =	1.9		
				_		tation	
			l —		_		
0	= Total Cover		_				
							ng
90	Yes	FACW	data in F	Remarks or on a	separai	e sneet)	
10	No	OBL	Problematic	Hydrophytic Ve	egetation	¹ (Explain)	
			¹ Indicators of hyd	dric soil and wet	land hyd	rology must	
			be present, unles	ss disturbed or p	roblema	tic.	
			Definitions of Ve	egetation Strat	a:		
				_		re in diamete	r
				•	•		
			Sanling/shrub _	. Woody plants I	ess than	3 in DRH	
			Herb – All herbad	ceous (non-woo	dv) plant	s regardless	of
				·		_	
			Woody vines – A	All woodv vines	areater th	nan 3.28 ft in	
					9		
			neight.				
100	= Total Cover		neight.				
100	= Total Cover		neignt.				
100	= Total Cover		neignt.				
100	= Total Cover		Hydrophytic				
100	= Total Cover		Hydrophytic Vegetation	Vas	X	lo.	
100	= Total Cover		Hydrophytic	Yes _	<u>x</u> ,	lo	
100	= Total Cover		Hydrophytic Vegetation	Yes _	<u> </u>	lo	
	0 90 10	% Cover Species? 0 = Total Cover 0 = Total Cover 90 Yes 10 No	% Cover Species? Status 0 = Total Cover 0 = Total Cover 90 Yes FACW 10 No OBL	Species Status Dominance Test	Species? Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	Nominance Test worksheet: Number of Dominant Species	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:

SOIL Sampling Point: DP-GN Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 10YR 2/1 100 Silt ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction Depth (inches): 8 Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point, could not dig past 8 inches due to bedrock.



PEM Wetland GN- View facing South.



PEM Wetland GN- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Cour	nty: Green	ie	Sampling Date:	August 25, 2022			
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-GN-Upland			
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	e: Catskill					
Landform (hillslope,		Terrace		·	f (concave, con			Slope (%): 1			
	•				·	-					
Subregion (LRR or I	-	LRR R		Lat: 42.229132	!°N	Long: 73.866573°W		Datum: NAD83			
Soil Map Unit Name	:: NrE- Nassau	u channery silt loar	m, steep, very r	ocky		NWI cla	ssification: Not N	Mapped			
Are climatic / hydrol	logic conditions on	the site typical for	r this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)				
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	l? <i>F</i>	Are "Normal Circumstances	" present?	Yes X No			
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain any ansv	wers in Remarks.)				
SUMMA	ARY OF FIND	INGS – Attacl	າ site map ເ	showing sam	pling point	t locations, transect	s, important t	eatures, etc.			
Liveles = by the \/o ac	1 See Bresento	Vac	No	v	In the Commi						
Hydrophytic Vege Hydric Soil Preser		-	No No	X X	Is the Sampl within a Wet		No	X			
Wetland Hydrolog		-	No		If yes optiona	al Wetland Site ID:	 -				
Remarks: (Explain a		-			II yes, optione	di Weliana Sile ib.					
HYDROLOGY Wetland Hydrolo	nav Indicators:					Seconda	ry Indicators (minir	num of two required)			
_		' ira di abaal	-II that apply)					num or two required;			
		e is required; check			50/	· · · · · · · · · · · · · · · · · · ·					
Surface Water T			_	Stained Leaves (F	В9)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
High Water T Saturation (A				c Fauna (B13) eposits (B15)			Dry-Season Water Table (C2)				
Water Marks	•			eposiis (B15) gen Sulfide Odor ((C1)			(02)			
Sediment De				ed Rhizospheres				al Imagery (C9)			
Drift Deposits	. , ,			nce of Reduced Iron	=						
Algal Mat or			_	t Iron Reduction in	` ,	·	rphic Position (D2)				
Iron Deposits	` '			luck Surface (C7)	•	· —	v Aquitard (D3)				
Inundation V	isible on Aerial Im	nagery (B7)	Other ((Explain in Remar	rks)	Microto	pographic Relief (I	O4)			
Sparsely Veg	getated Concave S	Surface (B8)				FAC-Ne	eutral Test (D5)				
Field Observation	ns:										
Surface Water Pre	esent?	Yes No									
Water Table Prese		Yes No				Wetland Hydrology P	resent? Yes	No X			
Saturation Presen		Yes No	X Depth	(inches):							
(includes capillary		auge, monitoring w	uall carial photo	as provious inens	actional if avail	ahla.					
Describe Necorde	ili Dala (Siream ye	auge, mormoring w	/ell, aeriai prion	JS, previous mape	ections), ii avaii	able.					
Remarks:											
No wetland hydr	rology present a	at the Data Point	í.								

Populus deltoides

SOIL Upland Sampling Point: DP-GN-

Profile Descri	ption: (Describe to the	depth need	led to document the	indicator or	confirm th	ne absence	of indicators.)	
Depth	Matrix			x Features	- _{- 1}	. 2		
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/3	100					Silt	
ı 								
1 _{Type: C-Con}	centration, D=Depletion	PM-Reduc	ad Matrix MS-Maska	d Sand Grai	ne		² Location:	PL=Pore Lining, M=Matrix.
		, rawi=raeuuc	ou manix, mo=maske	u Janu Gral	113.			
Hydric Soil In			Dohardus Dal	Curtoss (Co	\			or Problematic Hydric Soils ³ :
Histosol (•		Polyvalue Below	Surface (So) (LKK K,			luck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)	(00) (1.00		4.40D)		Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfac			149B)		ucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky M		LRR K, L)			urface (S7) (LRR K, L, M)
	Layers (A5)		Loamy Gleyed M					ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	11)	Depleted Matrix					ark Surface (S9) (LRR K, L)
	rk Surface (A12)		Redox Dark Surf					anganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Depleted Dark S					ont Floodplain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depression	ons (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							rent Material (F21)
	Matrix (S6)							nallow Dark Surface (TF12)
Dark Surf	face (S7) (LRR R, MLR	A 149B)					Other (I	Explain in Remarks)
³ Indicators of I	nydrophytic vegetation a	and wetland h	nydrology must be pre	sent, unless	disturbed o	r problemati	ic.	
Restrictive La	yer (if observed):							
Type: Con	npaction							
Depth (incl	hes): 3						Hydric Soil P	resent? Yes No X
							1 -	
Remarks:	il present at the Data	Point						
140 Hydrio 30	ii present at the Bate	onit.						



Upland GN- View facing South.



Upland GN Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	e	Sampling	Date:	June 9, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling	Point:	DP-M-1	
Investigator(s):	Tristen Peterson	n		Section, To	ownship, Range	e: Catskill				
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%):	1
	•	LRR R		Lat: 42.228428	•	Long: 73.86707				<u> </u>
Subregion (LRR or I	-			Lät: 42.220420	TN L	Long: 13.00101		N=4 Ma		
Soil Map Unit Name		nannery silt loam, ro					NWI classification:		эрреа	
Are climatic / hydrole	_	• •	•				o, explain in Remark			
		, or Hydrology				re "Normal Circu	mstances" present?	Ye	es <u>X</u> No _	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If	f needed, explain	any answers in Rei	marks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, tr	ransects, impo	rtant fe	atures, etc.	
Hydrophytic Vege	etation Present?	Yes	X No	l	Is the Sample	ed Area				
Hydric Soil Preser		Yes	X No		within a Wetl		Yes X	No _		
Wetland Hydrolog		Yes	X No		If yes, optiona	al Wetland Site ID): <u>M-1</u>			
HYDROLOGY										
	an Indicators:						Secondary Indicate	ro (minimu	m of two required)	
Wetland Hydrolo		= in required; check	all that annly)	1		_	Secondary Indicator		ım or two requirea,	
		e is required; check			PO)					
X High Water T				-Stained Leaves (E ic Fauna (B13)	39)		_			
X Saturation (A				Deposits (B15)			Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Water Marks	•		· 	gen Sulfide Odor ((C1)		•	-	<i>,</i> 2)	
Sediment De				zed Rhizospheres		(C3)	Saturation Visible		Imagery (C9)	
Drift Deposits				nce of Reduced Iro	_		Stunted or Stresse			
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction in	n Tilled Soils (C	(6) X	Geomorphic Posit	tion (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aquitard	(D3)		
	isible on Aerial Im		Other	(Explain in Remark	rks)	_	Microtopographic	Relief (D4	1)	
Sparsely Vec	getated Concave	Surface (B8)					FAC-Neutral Test	(D5)		
Field Observation										
Surface Water Pre		Yes No								
Water Table Prese		Yes X No				Wetland Hyd	rology Present?	Yes _	X No	
Saturation Presen		Yes X No	Depth	ı (inches): 1						
(includes capillary Describe Recorde		gauge, monitoring w	ell aerial phot	tos previous inspe	ections) if availa	ahle:				
D0301100 11000.00	u Data (ottoatt. 3	augo, mormoning	ell, acriai prior	.03, provious meps	ottorioj, ii ava	abic.				
Remarks: Wetland hydrolo	ogy present at tl	he Data Point.								

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:		
1				Number of Domi		1	(A)
2				Total Number of Species Across		2	(D)
3				Percent of Domin		2	(B)
5				That Are OBL, F		50	(A/B
3				Prevalence Inde			
·,		= Total Cover		Total % Cov		Multiply by:	-
W (0) 1 0 () (0) () (0)		= Total Cover		· ·	·	x 1 = 0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0	$x = \frac{90}{0}$ $x = \frac{90}{0}$	
l				FACU species		•	
2				UPL species	0		
k				•		x = 0	_
				Column Totals:	45	(A) <u>90</u>	_ (E
				Prevalence	e Index = B/A = 2	2	
S				Hydrophytic Ve	getation Indicates to for Hydrophy		
7				X 2 - Dominar		=	
	0	= Total Cove		X 3 - Prevaler			
erb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting	
. Symplocarpus	60	Yes				separate sheet)	
2. Impatiens capensis	30	Yes	FACW	Problematic	Hydrophytic Ve	getation ¹ (Explain)	
B. Onoclea sensibilis	15	No	FACW			land hydrology must	
4				be present, unles	ss disturbed or p	roblematic.	
5				Definitions of V	_		
6				at breast height (=	n) or more in diameter as of height.	
3.				Sapling/shrub – and greater than		ess than 3 in. DBH ft (1 m) tall.	
9. 10					· ·	dy) plants, regardless o	f
11				size, and woody		3.28 π tall. greater than 3.28 ft in	
12				height.	All woody villes (greater than 3.20 it in	
	105	= Total Cove	7				
/oody Vine Stratum (Plot size: 30 ft.)							
2				Hydrophytic			
3.		-		Vegetation Present?	Yes _	X No	
	0	= Total Cove	er				

SOIL Sampling Point: DP-M-1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock Depth (inches): 8 Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point, could not dig past 8 inches due to bedrock.



PEM Wetland M1- View facing North.



PEM Wetland M1- Soils

SITE PHOTOGRAPHS

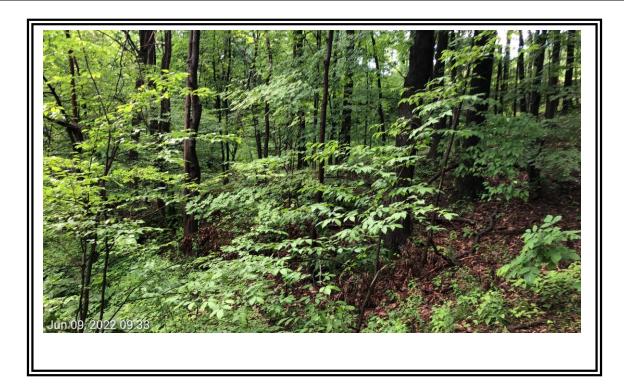
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	Champlain Huc	hamplain Hudson Express			ty: Greene	ne Sampling Date: June 9, 2022					
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-M-1-Upland			
Investigator(s):	Tristen Peterso	n		Section, To	wnship, Range:	Catskill					
Landform (hillslope		Hillslope			(concave, convex,			Slope (%):4			
, ,	,		1.			·		Olope (70):			
Subregion (LRR or	-	LRR R		.at: 42.228280°l	IN LONG	g: 73.866936°W					
Soil Map Unit Name	e: - Nassau cl	hannery silt loam, st	eep, very rocky			NWI clas	ssification: Not N	Mapped			
Are climatic / hydro	logic conditions of	on the site typical for	this time of year?	? Yes	X No	(If no, explain	n Remarks.)				
Are Vegetation _	, Soil	, or Hydrology	significa	antly disturbed?	Are "I	Normal Circumstances	' present?	Yes X No			
Are Vegetation _	, Soil	, or Hydrology	naturall	ly problematic?	(If nea	eded, explain any answ	ers in Remarks.)				
SUMM	ARY OF FINE	DINGS – Attach	site map sh	owing samp	pling point lo	cations, transect	s, important f	eatures, etc.			
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sampled A	Area					
Hydric Soil Prese		Yes	No		within a Wetland		No _	X			
Wetland Hydrolog		Yes _	No _		If yes, optional We	etland Site ID:					
HYDROLOGY						2	· · · (origin				
Wetland Hydrolo								num of two required)			
· · · · · · · · · · · · · · · · · · ·		ne is required; check					Soil Cracks (B6)				
Surface Wat				ained Leaves (B	9)		e Patterns (B10)				
High Water				auna (B13)			s Trim Lines (B16) Season Water Table (C2)				
Saturation (/	•			osits (B15)				(C2)			
Water Marks				Sulfide Odor (C	•		Burrows (C8)	(00)			
	eposits (B2)			*	on Living Roots (C3		on Visible on Aeria				
Drift Deposit				of Reduced Iron			or Stressed Plants				
Algal Mat or Iron Deposit					Tilled Soils (C6)		phic Position (D2) Aquitard (D3)				
'	เร (ฮอ) Visible on Aerial Ir			k Surface (C7) plain in Remark	·~\			34)			
	visible on Aerial ir egetated Concave	• • • •	Olliei (EA	plain in Kemark	(S)		oographic Relief ([eutral Test (D5)	<i>)</i> 4)			
		Sunace (Do)				I AU-ING	นแต่ เคอเ (กา)				
Field Observation Surface Water Pr		Yes No	Y Denth (ir	nchael·							
Water Table Pres		Yes No			Ι,	Wetland Hydrology Pr	acont? Yes	No X			
Saturation Preser		Yes No			'	Wetianu riyurology i i	esenti 169	NO A			
(includes capillary											
		gauge, monitoring we	ell, aerial photos,	previous inspec	ctions), if available	:					
Remarks: No wetland hvd	Irology present	at the Data Point.									

	Absolute	Dominant	Indicator	.				
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Number of Domin				
1. Fagus grandifolia	20	Yes	FACU	That Are OBL, F			0	(A)
2. Quercus rubra	40	Yes	FACU	Total Number of	Dominant			
3. Acer saccharum	15	Yes	FACU	Species Across A			4	(B)
4.				Percent of Domir	ant Species			
5				That Are OBL, FA	ACW, or FAC:		0	(A/B)
6				Prevalence Inde	v workshooti			
7				Total % Cov		N	Multiply by:	
	75	= Total Cover		OBL species	0	x 1 =	0	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0			
1				FAC species	0	x 3 =	0	
2.				FACU species	85	x 4 =	340	
				UPL species	0	x 5 =	0	
3				Column Totals:	85	(A)	340	(B)
4								
5				Prevalence	e Index = B/A =	4		
6				Hydrophytic Ve	=			
7				I —	est for Hydrophy		etation	
		T 0			nce Test is >50%			
lorh Stratum (Plot aire; 5 ft)	0	= Total Cover			ice Index is ≤3.0 ogical Adaptatio		wido cuppor	ting
lerb Stratum (Plot size: 5 ft.)				_	Remarks or on a			ung
Fragaria virginiana	10	Yes	FACU			·		
2				Problematic	Hydrophytic Ve	getatior	n ¹ (Explain)	
3				¹ Indicators of hyd	dric soil and wet	and hyd	drology must	:
4				be present, unles	s disturbed or p	roblema	atic.	
5.				Definitions of Vo	egetation Strata	a:		
				Tree – Woody pla	_		ore in diamet	ter
6				at breast height (•	•		.01
7							=	
8.				Sapling/shrub – and greater than				
9					•			
10				Herb – All herbad size, and woody			_	s of
11								
12.				Woody vines – A height.	All woody vines (greater t	han 3.28 ft ii	1
	10	= Total Cover						
	10	= Total Cover						
Voody Vine Stratum (Plot size: 30 ft.)								
1				I buda a budia				
2.				Hydrophytic Vegetation				
3.				Present?	Yes _		No X	_
4								
··-		T-4-1 O						
	0	= Total Cove	·I	<u>I</u>				
Remarks: (Include photo numbers here or on a separat								
No hydrophytic vegetation found at the Data Poi	nt.							

SOIL Upland Sampling Point: DP-M-1-

Profile Descri	ption: (Describe to the	depth need	ed to document the	indicator or	confirm th	e absence	of indicators.)		
Depth	 Matrix	•		c Features			,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
<u> </u>			Contraction,						
0-20	10YR 5/4	100					Clay		
1 _{Type: C-Con}	centration, D=Depletion,	RM-Reduce	ad Matrix MS_Masks	d Sand Grain	ne		2 _{Location}	PL=Pore Lining, M=Matrix.	
		rvivi=iveduce	ivialiix, ivio=iviaske	u Janu Gidli	113.				
Hydric Soil In				o . :-				or Problematic Hydric Soils ³ :	
Histosol (•	-	Polyvalue Below	Surface (S8) (LRR R,			uck (A10) (LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)		MLRA 149B)					Prairie Redox (A16) (LRR K, L, R)	
Black His	tic (A3)	-	Thin Dark Surfac	e (S9) (LRR	R, MLRA	149B)	5 cm Mi	ucky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)	_	Loamy Mucky Mi	neral (F1) (L	RR K, L)		Dark Su	ırface (S7) (LRR K, L, M)	
Stratified	Layers (A5)	_	Loamy Gleyed M	atrix (F2)			Polyvalu	ue Below Surface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A1	1)	Depleted Matrix (F3)			Thin Da	rk Surface (S9) (LRR K, L)	
Thick Dar	k Surface (A12)	-	Redox Dark Surfa					nganese Masses (F12) (LRR K, L, R)	
	ucky Mineral (S1)	-	Depleted Dark St					nt Floodplain Soils (F19) (MLRA 149B)	
	eyed Matrix (S4)	-	Redox Depression					Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy Re		-	Redox Deplessio	113 (1 0)				rent Material (F21)	
	Matrix (S6)							allow Dark Surface (TF12)	
Dark Surf	ace (S7) (LRR R, MLRA	A 149B)					Other (E	Explain in Remarks)	
³ Indicators of h	nydrophytic vegetation a	nd wetland h	ydrology must be pres	sent, unless	disturbed o	r problemati	C.		
	yer (if observed):								
Type: None	• •								
Depth (inch							Hydric Soil P	resent? Yes No X	
Deptil (Ilici	165).						Hydric Soil Fi	resent? res No A	_
Remarks:									
No hydric so	ils present at the Data	a Point.							



Upland M1- View facing North.



Upland M1 Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	e	Sampling Da	ate: August 25, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Po	oint: DP-GQ		
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill				
Landform (hillslope,		Depression			f (concave, con		Concave	Slope (%): 1		
	•	-			•			Slope (%)		
Subregion (LRR or I	-	LRR R		Lat: 42.228461	°N	Long: 73.865493				
Soil Map Unit Name		u channery silt loan					'	Not Mapped		
Are climatic / hydrol	· ·	• • • • • • • • • • • • • • • • • • • •	•			o (If no	o, explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	? A	re "Normal Circur	mstances" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	f needed, explain	any answers in Rema	ırks.)		
SUMMA	ARY OF FIND	NGS – Attach	site map s	showing sam	pling point	locations, tr	ansects, importa	ant features, etc.		
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area				
Hydric Soil Presei		Yes	X No		within a Wetl		Yes X	No		
Wetland Hydrolog		Yes	X No		If yes, optiona	al Wetland Site ID	e: GQ			
Remarks: (Explain: PFO Wetland lo		ession at the bot								
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary Indicators (minimum of two required)		
Primary Indicators	s (minimum of one	is required; check	all that apply)				Surface Soil Cracks	(B6)		
Surface Wate	er (A1)		Water-	Stained Leaves (E	B9)	<u>X</u>	Drainage Patterns (B	310)		
High Water 1				c Fauna (B13)		_	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) X Saturation Visible on Aerial Imagery (C9)			
X Saturation (A	•			eposits (B15)			='			
Water Marks				gen Sulfide Odor (- · · · · · · · · · · · · · · · · · · ·		•	·		
Sediment De				ed Rhizospheres o	=	(C3) X		5 , , ,		
Drift Deposits			_	nce of Reduced Iro	` '	-	Stunted or Stressed			
Algal Mat or	` '			t Iron Reduction in	n Tilled Solis (C	(6) <u>X</u>	•			
Iron Deposits	ร (ธอ) /isible on Aerial Im	agony (P7)		luck Surface (C7) (Explain in Remarl	·kc)	_	Shallow Aquitard (D3 Microtopographic Re			
_	getated Concave		Other (Lxpiaiii iii ixeiliali	N5)		FAC-Neutral Test (D			
Field Observatio										
Surface Water Pre		Yes No	X Depth	(inches):						
Water Table Pres		Yes No				Wetland Hyd	rology Present?	Yes X No		
Saturation Presen		Yes X No				-				
(includes capillary	r fringe)	·								
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aerial photo	os, previous inspe	ections), if availa	able:				
Domonko										
Remarks: Wetland hydrolo	ogy present at th	ne Data Point.								

ee Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Quercus palustris	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
Fraxinus pennsylvanica	30	Yes	FACW	11101110 052, 171011, 011710.	(//)
				Total Number of Dominant Species Across All Strata:	5 (B)
					(=)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/E
				Prevalence Index worksheet:	
		T-4-1 O		Total % Cover of:	Multiply by:
	40	= Total Cover			x 1 = 35
oling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species 65 FAC species 35	$x 2 = \frac{130}{x 3} = 105$
Frangula alnus	35	Yes	FAC	FACU species 10	x = 105 x = 40
				UPL species 0	x 5 = 0
				Column Totals: 145	
				Prevalence Index = B/A =	2.13
				Hydrophytic Vegetation Indica	itors:
				1 - Rapid Test for Hydrophy	ytic Vegetation
				X 2 - Dominance Test is >50°	
ch Stratum (Diat aiza: E ft.)	35	= Total Cover		X 3 - Prevalence Index is ≤3. 4 - Morphological Adaptation	
b Stratum (Plot size: 5 ft.)	_			data in Remarks or on a	
Symplocarpus foetidus	35	Yes	OBL		. 1
Parthenocissus quinquefolia	10	No	FACU	Problematic Hydrophytic Vo	
Fraxinus pennsylvanica	25	Yes	FACW	¹ Indicators of hydric soil and we	· =-
				be present, unless disturbed or p	oroblematic.
				Definitions of Vegetation Strat	a:
				Tree – Woody plants 3 in. (7.6 c	m) or more in diameter
				at breast height (DBH), regardle	ss of height.
				Sapling/shrub – Woody plants	less than 3 in. DBH
				and greater than or equal to 3.28	3 ft (1 m) tall.
0.				Herb – All herbaceous (non-woo	ody) plants, regardless of
				size, and woody plants less than	3.28 ft tall.
I				Woody vines – All woody vines	greater than 3.28 ft in
2				height.	
	70	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
				Hydrophytic	
				Vegetation	
					X No
·	0	= Total Cove	r		

SOIL Sampling Point: DP-GQ Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) Texture Remarks 10YR 3/1 90 10YR 6/6 Clay 0-4 10YR 4/1 70 10YR 6/6 4-16 Clay 10YR 6/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PFO Wetland GQ- View facing South.



PFO Wetland GQ- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Count	ty: Greene		Sampling Date:	August 25, 202	22		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-GQ-Upland	t		
Investigator(s):	Tristen Petersor	n		Section, To	wnship, Range:	Catskill					
Landform (hillslope,		Hillslope			(concave, convex,	, none): Convex		Slope (%):	4		
Subregion (LRR or	•	LRR R		Lat: 42.228621°l		g: 73.865467°W		Datum: NAD8			
					IN LONG		'G Not N		<u> </u>		
Soil Map Unit Name		u channery silt loai						Mapped			
Are climatic / hydro	=		•		X No	(If no, explain	in Remarks.)				
Are Vegetation _	, Soil	, or Hydrology	X signific	cantly disturbed?	Are "	Normal Circumstances	" present?	Yes X No			
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	(If ned	eded, explain any ansv	vers in Remarks.)				
SUMMA	ARY OF FIND	INGS – Attach	ո site map sł	howing samp	pling point lo	cations, transect	s, important f	features, etc.			
Hydrophytic Vege	otation Present?	Yes	No	х	Is the Sampled A	N. CO.					
Hydric Soil Prese		Yes	No _	X	within a Wetland		No	Х			
Wetland Hydrolog		Yes	No _	X	If yes, optional We	etland Site ID:					
		dures here or in a s			11 900, 001.01.01	cliding one .2.					
HYDROLOGY Wetland Hydrolo	pay Indicators:					Seconda	ry Indicators (minir	num of two require	2d)		
-		1t di abaal	" " -t h ()					num oi iwo require	30)		
		e is required; check		: ' !! voo (D	- 21		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)				
Surface Wat				tained Leaves (B	9)		Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)				
High Water				Fauna (B13)			Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Saturation (A Water Marks	•			posits (B15) en Sulfide Odor (C	21)			(C2)			
Sediment De				-	n Living Roots (C3			al Imagery (C9)			
Drift Deposit				e of Reduced Iron	= -						
Algal Mat or	` '			ron Reduction in		_					
Iron Deposit				ck Surface (C7)			Aquitard (D3)				
	/isible on Aerial In	nagery (B7)	Other (E	xplain in Remark	is)		pographic Relief ([D4)			
Sparsely Ve	getated Concave	Surface (B8)				FAC-Ne	eutral Test (D5)				
Field Observation	ons:										
Surface Water Pr	esent?	Yes No									
Water Table Pres	ent?	Yes No			V	Wetland Hydrology Pr	resent? Yes	No _	X		
Saturation Preser		Yes No	X Depth (i	inches):							
(includes capillary		auge, monitoring w	" - seigl photos	ious inones	··\ if a vailable						
Describe Records	ad Data (stream g	auge, monitoring w	/eii, aeriai priotos	s, previous inspec	mons), if available	:					
Remarks:											
No wetland hyd	rology present a	at the Data Point	i.								

	Absolute	Dominant	Indicator	<u> </u>	
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test worksheet: Number of Dominant Species	
Robinia pseudoacacia	25	Yes	FACU	That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	0 (A/B)
6					
7				Prevalence Index worksheet: Total % Cover of:	Multiply by:
	25	= Total Cover		OBL species 0	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1				•	x 3 = 0
				FACU species 95	x 4 = <u>380</u>
2				UPL species 0	x 5 = 0
3				Column Totals: 95	(A) <u>380</u> (B)
4				Describerate la desc. D/A	4
5				Prevalence Index = B/A =	4
6				Hydrophytic Vegetation Indicat	
7				1 - Rapid Test for Hydrophy 2 - Dominance Test is >50%	=
	0	= Total Cover		3 - Prevalence Index is ≤3.0	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptatio	
Ambrosia artemisiifolia	40	Yes	FACU	data in Remarks or on a	separate sheet)
Parthenocissus quinquefolia	15	Yes	FACU	Problematic Hydrophytic Ve	getation ¹ (Explain)
Solidago canadensis			FACU	¹ Indicators of hydric soil and wet	land hydrology must
				be present, unless disturbed or p	roblematic.
5				Definitions of Vegetation Strata	a·
5				Tree – Woody plants 3 in. (7.6 cr	
-				at breast height (DBH), regardles	,
7					_
8				Sapling/shrub – Woody plants lo and greater than or equal to 3.28	
9				Herb – All herbaceous (non-woo	
10				size, and woody plants less than	
11.				Woody vines – All woody vines of	greater than 3 28 ft in
12				height.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	70	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic	
				Vegetation Present? Yes	NoX
				Tresent: Tes _	NO
4		T			
	0	= Total Cove	er		
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation found at the Data Point.					

SOIL
Upland
Sampling Point: DP-GQ-

Profile Descri	iption: (Describe to the	depth need	ed to document the	indicator or	confirm th	ne absence	of indicators.)			
Depth	Matrix			x Features	- _{- 1}	. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 3/3	100					Silt			
				· ——						
<u></u>										
								-		
				·						
				· ——						
				· ——						
								-		
¹ Type: C=Con	centration, D=Depletion,	RM-Reduc	ad Matrix MS-Maske	d Sand Grai	ne		² Location:	PL=Pore Lining, M=Matrix.		
		KIVI=Keduc	eu Matrix, Mo=Maske	u Sanu Grai	115.					
Hydric Soil In			Polynolus Pale	Surface (Co) (I PP P			or Problematic Hydric Soils ³ : luck (A10) (LRR K, L, MLRA 149B)		
Histosol (•	Polyvalue Below	Surface (So) (LKK K,					
	ipedon (A2)		MLRA 149B)	(00) (1.00		4.400)		Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfac			149B)		ucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Mucky Mi		LRR K, L)			urface (S7) (LRR K, L, M)		
	Layers (A5)		Loamy Gleyed M					ue Below Surface (S8) (LRR K, L)		
	Below Dark Surface (A1	1)	Depleted Matrix					ark Surface (S9) (LRR K, L)		
	rk Surface (A12)	•	Redox Dark Surf					anganese Masses (F12) (LRR K, L, R)		
	ucky Mineral (S1)		Depleted Dark S					ont Floodplain Soils (F19) (MLRA 149B)		
	leyed Matrix (S4)	•	Redox Depression	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	edox (S5)						Red Parent Material (F21)			
	Matrix (S6)							nallow Dark Surface (TF12)		
Dark Sur	face (S7) (LRR R, MLRA	A 149B)					Other (I	Explain in Remarks)		
³ Indicators of I	hydrophytic vegetation a	nd wetland h	ydrology must be pre	sent, unless	disturbed of	r problemati	ic.			
Restrictive La	ayer (if observed):									
Type: Con	npaction									
Depth (inc	hes): 6						Hydric Soil P	resent? Yes No X		
Domorko							1			
Remarks: Could not did	g past 6 inches due to	compaction	n no hydric soils r	resent at t	he Data P	oint				
	g paot oooo aao t		,, a co p			·····				



Upland GQ- View facing South.



Upland GQ Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - Harbour Freight - MP 222.0	City/County: Catskill/ Greene Sampling Date: 5/24/20						
Applicant/Owner: CHPE	State: NY Sampling Point: G7A- Wet						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Catskill						
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 5						
· · · · · · · · · · · · · · · · · · ·	Long: 73°,52',44.91"N Datum:						
Soil Map Unit Name: Hudson and Vergennes	NWI classification: PFO						
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 Hydrology significantly distur							
Are Vegetation, Soil, or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam							
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) X Water-Stained Leaves (I	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 (
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Iro							
Algal Mat or Crust (B4) Recent Iron Reduction in	· / _ · · · · · · · · · · · · · · · · ·						
Iron Deposits (B5) X Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar							
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):	: <u></u>						
Water Table Present? Yes No X Depth (inches):	: <u></u>						
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

VEGETATION – Use scientific names of plants.

T. 01 1 (DL)	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:		
1. Fraxinus pennsylvanica	15	Yes	FACW	Number of Dominant Species		
2. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC: 7 (A)		
 Ulmus americana 4. 	20	Yes	FACW	Total Number of Dominant Species Across All Strata: 10 (B)		
5.				Brown of Brown on A Constitution		
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 70.0% (A/B)		
7				Prevalence Index worksheet:		
	50	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =		
1. Hamamelis virginiana	5	Yes	FACU	FACW species x 2 =		
2. Cornus amomum	5	Yes	FACW	FAC species x 3 =		
3. Acer rubrum	10	Yes	FAC	FACU species x 4 =		
4. Viburnum dentatum	5	Yes	FAC	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:)				X 2 - Dominance Test is >50%		
Onoclea sensibilis	10	No	FACW	3 - Prevalence Index is ≤3.0 ¹		
2. Amauropelta noveboracenis	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting		
3. Equisetum arvense	5	No	FAC	data in Remarks or on a separate sheet)		
4. Alliaria petiolata	15	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Geranium maculatum	5	No	FACU	Indicators of hydric call and watland hydrology must		
6. Impatiens capensis	15	Yes	FACW	¹ 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 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	55	=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:)	- 33	- Total Cover				
Woody Vine Stratum (Plot size:) 1. Parthenocissus quinquefolia	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.		
2			TACO	neight.		
2				Hydrophytic		
				Vegetation Present? Yes X No		
4.		-Tatal Cavan		Present? Yes X No No		
	5	=Total Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Sampling Point: G7A- Wet

SOIL Sampling Point G7A- Wet

Profile Desc Depth	cription: (Describe to Matrix	to the de		ı ment tl k Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	100					Loamy/Clayey	silty with a bit of grit
6-14	7.5YR 3/2	95	7.5YR 4/6	5	С	М	Sandy	Prominent redox concentrations
1Typo: C=C	oncentration, D=Depl	otion D*	1-Poduced Matrix A	19-140-	kod Sas	d Grains	² l postion: D	PL=Pore Lining, M=Matrix.
Hydric Soil Histosol Histic Ep Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G X Sandy F Stripped Dark Su	Indicators: (A1) Dipedon (A2) Stic (A3) En Sulfide (A4) Di Layers (A5) Di Below Dark Surface Eark Surface (A12) Mucky Mineral (S1) Dieyed Matrix (S4)	e (A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	w Surfa) ace (S9) Sands (S Mineral Matrix (x (F3) Irface (F Surface Sions (F R K, L)	ce (S8) () (LRR R 611) (LRI (F1) (LRI F2) 	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for 2 cm Mu ? Coast Pi 49B) 5 cm Mu Polyvalu Thin Dai Iron-Mai Piedmor Mesic S Red Par Very Shi	or Problematic Hydric Soils ³ : cick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) cicky Peat or Peat (S3) (LRR K, L, R) cie Below Surface (S8) (LRR K, L) rik Surface (S9) (LRR K, L) riganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) explain in Remarks)
Type: Depth (ii							Hydric Soil Prese	nt? Yes X No
Version 7.0,	m is revised from No 2015 Errata. (http://w 0 inches of water in t	ww.nrcs.	usda.gov/Internet/FS					CS Field Indicators of Hydric Soils,



Wetland G-P7A-A



Wetland G-P7A-A - Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - Harbour Freight - MP 222.0	City/County: Catskill/ Greene Sampling Date: 5/24/202						
Applicant/Owner: CHPE	State: NY Sampling Point: G7A-Up						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Catskill						
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 5						
	Long: 73°,52',44.91"N Datum:						
Soil Map Unit Name: Hudson and Vergennes	NWI classification: None						
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 Hydrology significantly disturb							
Are Vegetation, Soil, or Hydrology naturally problems							
							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) X Water-Stained Leaves (I	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 (
Sediment Deposits (B2) Oxidized Rhizospheres of							
Drift Deposits (B3) Presence of Reduced Iro							
Algal Mat or Crust (B4) Recent Iron Reduction in	• • • • • • • • • • • • • • • • • • • •						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	arks) 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):							
(includes capillary fringe)	<u> </u>						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
	,						
Remarks:							
I and the second							

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	15	Yes	FACW	
Acer saccharum	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Ulmus americana	5	No	FACW	
Fagus grandifolia		No	FACU	Total Number of Dominant Species Across All Strata: 10 (B)
			17100	`` `
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
			-	Prevalence Index worksheet:
7.		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:				OBL species x 1 =
1. Hamamelis virginiana	10	Yes	FACU	FACW species x 2 =
Carpinus caroliniana	10	Yes	FAC	FAC species x 3 =
3. Acer saccharum	10	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:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				2 - Dominance Test is >50%
1. Alliaria petiolata	10	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Amauropelta noveboracenis	5	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Geranium maculatum	5	Yes	FACU	data in Remarks or on a separate sheet)
4. Fragaria virginiana	5	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				¹ 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.				
	25	=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:)			Weeds since All weeds since greater than 2.39 ft in
Parthenocissus quinquefolia	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet.)			
	,			

Sampling Point:

G7A-Up

SOIL Sampling Point G7A-Up

(inches) 0-14	Color (moist)		Redox	∢Featur	es			
0-14		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	10YR 4/3	100					Loamy/Clayey	
·		— -						
		— -						
 .					 :		2	
	ncentration, D=Depleti	on, RM=	Reduced Matrix, N	IS=Mas	ked Sand	Grains.		ore Lining, M=Matrix.
Hydric Soil In Histosol (<i>P</i>			Dobarduo Polo	w Surfa	oo (S9) (I	DD D		roblematic Hydric Soils ³ : A10) (LRR K, L, MLRA 149B)
	pedon (A2)	_	Polyvalue Belo MLRA 149B		Je (36) (L	KK K,		Redox (A16) (LRR K, L, R)
Black Histi			Thin Dark Surfa		(I RR R	MIRA 1		Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	_	High Chroma S		•			elow Surface (S8) (LRR K, L)
	Layers (A5)	_	Loamy Mucky I					urface (S9) (LRR K, L)
	Below Dark Surface (<i>I</i>	A11) —	Loamy Gleyed			, _ /		ese Masses (F12) (LRR K, L, R)
	k Surface (A12)	, _	Depleted Matrix		/			podplain Soils (F19) (MLRA 149B
	icky Mineral (S1)	_	' Redox Dark Su		6)			c (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)	_	Depleted Dark		-			Material (F21)
Sandy Red	dox (S5)		Redox Depress	sions (F	3)		Very Shallow	/ Dark Surface (F22)
Stripped M	Matrix (S6)		Marl (F10) (LR l	R K, L)			Other (Expla	in in Remarks)
	ace (S7)	_	_					
Dark Surfa								
		n and wef	tland hydrology mu	st be pr	esent, unl	ess distu	rbed or problematic.	
Dark Surfa	hydrophytic vegetation							
Dark Surfa 3 Indicators of hacketrictive La	nydrophytic vegetation ayer (if observed):							
Dark Surfa	, , , ,							
Dark Surfa Indicators of hastrictive La	ayer (if observed):						Hydric Soil Present?	Yes No_X_
Dark Surfa Indicators of h Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Present?	Yes No_X_
Dark Surfa Indicators of has been depth (incompleted) Remarks: This data form	ches):	ocentral a					2.0 to include the NRCS F	Yes No X ield Indicators of Hydric Soils,
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches):	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Indicators of harmonication	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Plandicators of harmonic from the control of the contr	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	
Dark Surfa Plandicators of harmonic from the control of the contr	ches): is revised from North 015 Errata. (http://www	icentral a w.nrcs.us	sda.gov/Internet/FS				2.0 to include the NRCS F	



Upland GP7A-A



Upland GP7A-A- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 7	City/County: Catskill Sampling Date: 12/7/21
Applicant/Owner: CHA	State: NY Sampling Point: CC-1
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.): Local r	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.21167	Long: -73.8869 Datum: NAD83
Soil Map Unit Name:	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation No, Soil N, or Hydrology N significantly disturb	ped? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland CC	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	
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 (C	
Sediment Deposits (B2) Oxidized Rhizospheres o Trift Deposits (B3) X Presence of Reduced Iro	
Drift Deposits (B3) X Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
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):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
Normans.	

VEGETATION – Use scientific names of plants. Sampling Point: CC-1 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Fraxinus americana **FACU** Yes Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 66.7% (A/B) Prevalence Index worksheet: 30 =Total Cover Total % Cover of: Multiply by: OBL species Sapling/Shrub Stratum (Plot size: 15) Cornus sericea Yes **FACW** species 90 x 2 = 1. **FACW** 180 2. FAC species 0 x 3 = 0 30 3. FACU species x 4 = 120 4. UPL species x 5 = 5. Column Totals: 120 (A) 300 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** 40 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phragmites australis X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 7. 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 50 =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 height. 2. Hydrophytic 3. Vegetation Present? Yes x No =Total Cover

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point CC-1

Profile Desci Depth	ription: (Describe to Matrix	the de		ument t x Featu		ator or co	onfirm the absence of indic	ators.)
(inches)	Color (moist)	%	Color (moist)	% " Catu	Type ¹	Loc ²	Texture	Remarks
0-3	10yr 2/1				.) 0			. temante
3-16	10yr 3/4	70	7.5yr 5/6	30			Loamy/Clayey	Prominent
3-10	10y1 3/4		7.5yi 5/6	30			Loamyrolayey	1 TOTTIMETIC
								_
								_
1							2	
	ncentration, D=Deple	tion, RI	M=Reduced Matrix, I	MS=Mas	sked San	d Grains.		e Lining, M=Matrix. blematic Hydric Soils ³ :
Hydric Soil In Histosol (Polyvalue Belo	ow Surfa	ice (S8) (LRR R.		0) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149E		() (,		ledox (A16) (LRR K, L, R)
Black His			Thin Dark Sur	face (S9) (LRR R	, MLRA		eat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		High Chroma				Polyvalue Belo	w Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			RK,L)		ace (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		(F2)			e Masses (F12) (LRR K, L, R)
	rk Surface (A12)		X Depleted Matr		=6)			dplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1) leyed Matrix (S4)		X Redox Dark S Depleted Dark				Red Parent Ma	TA6) (MLRA 144A, 145, 149B)
	edox (S5)		Redox Depres					Park Surface (F22)
	Matrix (S6)		Marl (F10) (LF		-,		Other (Explain	
Dark Surf				. ,			<u> </u>	,
2								
		on and v	vetland hydrology m	ust be p	resent, u	nless dist	turbed or problematic.	
Type:	.ayer (if observed):							
Depth (in	ches):						Hydric Soil Present?	Yes X No
							Tryunc 3011 Fresent:	163 <u>X</u> NO
Remarks:								



Wetland CC - Soils

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: Catskill Sampling Date: 11/29/2021
Applicant/Owner: CHA	State: NY Sampling Point: cc-14 Upland
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
	cal relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.21032	Long: -73.88799 Datum: NAD83
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year'	
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	
	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Upland for WL-CC	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	s (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 Odd	
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	<u>—</u>
Algal Mat or Crust (B4) Recent Iron Reduction	· / — · · /
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inche	
Water Table Present? Yes No X Depth (inche	
Saturation Present? Yes No X Depth (inche	es): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Quercus rubra	50	Yes	FACU	Dominance Test worksheet.
Acer saccharinum	35	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Acer Saccinatificiti		165	TACO	That Ale Obl., I ACW, OF I AC (A)
				Total Number of Dominant Species Across All Strata: 5 (B)
				Species Across All Strata
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/E
·				That Are OBL, FACW, or FAC: 0.0% (A/E
	<u> </u>	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:		- Total Cover		OBL species 0 x 1 = 0
Laninara ann	_ ⁾ 20	Yes	FACU	FACW species $0 \times 2 = 0$
Lonicera spp.		165	FACO	
				FACU species 105 x 4 = 420
				UPL species 60 x 5 = 300
				Column Totals: 165 (A) 720 (B
				Prevalence Index = B/A = 4.36
		Tatal Oassa		Hydrophytic Vegetation Indicators:
1.01.1.	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:)		.,		2 - Dominance Test is >50%
Solidago spp.	50	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporti data in Remarks or on a separate sheet)
·				Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
		=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size:				Woody vines - All woody vines greater than 3.28 ft
Celastrus orbiculatus	10	Yes	UPL	height.
				Hydrophytic
·				Vegetation
·				Present?
	10	=Total Cover		

	-	to the de				itor or co	onfirm the absence of inc	dicators.)
Depth	Matrix	0/		x Featur		. 2	- .	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-16	10yr 4/2	100					Loamy/Clayey	
								_
								_
								_
¹Type: C=Co	oncentration, D=Dep	letion RN	/=Reduced Matrix N	MS=Mas	ked Sand	Grains	² l ocation: PI =P	ore Lining, M=Matrix.
Hydric Soil		iotion, rtii	T TOUGOU MAIN, I	vie mae	nou ounc	a Oramo.		roblematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B		35 (35) (,		e Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf		(LRR R	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					elow Surface (S8) (LRR K, L)
	I Layers (A5)		Loamy Mucky					urface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed			, _/		nese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	5 (711.)	Depleted Matri		/			oodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark St		-6)			c (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark		-			Material (F21)
	edox (S5)		Redox Depres					v Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		•,			ain in Remarks)
	face (S7)		(: :0) (=::	, _,				,
Bank Bank	1400 (07)							
³ Indicators of	f hydrophytic vegetat	tion and v	vetland hydrology m	ust be pi	resent ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:	, (,-							
-	achao).						Hydric Soil Present?	Voc. No. V
Depth (ir	iches).						nyuric Soil Present?	Yes No _X
Remarks:								



Upland CC- Soils

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Soil Map Unit Name: HvB - Hudson and Vergennes soils, 3 to 8 percent slopes NWI classification: Not Mapped Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)	NAD83				
Investigator(s): Tristen Peterson	NAD83				
Subregion (LRR or MLRA): LRR Lat: 42.210070°N Long: 73.886207°W Datum: Soil Map Unit Name: HvB - Hudson and Vergennes soils, 3 to 8 percent slopes	NAD83				
Subregion (LRR or MLRA): LRR Lat: 42.210070°N Long: 73.886207°W Datum: Soil Map Unit Name: HvB - Hudson and Vergennes soils, 3 to 8 percent slopes NWI classification: Not Mapped 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 Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X Are Vegetation or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland? Site ID: GO Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. Hydrology Indicators: Surface Soil Cracks (B6)	NAD83				
Soil Map Unit Name: HvB - Hudson and Vergennes soils, 3 to 8 percent slopes Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No				
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 Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland? Yes X No Finding Present? Yes X No If yes, optional Wetland Site ID: GO Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand.					
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes _X 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 Hydrophytic Vegetation Present? Yes _X No Is the Sampled Area within a Wetland? Yes _X No Wetland Hydrology Present? Yes _X No If yes, optional Wetland Site ID: GO Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators:					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland Site ID: GO Secondary Indicators (minimum of two Surface Soil Cracks (B6)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No If yes, optional Wetland? Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)	, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Is the Sampled Area within a Wetland? Yes X No	, etc.				
Hydric Soil Present? Wetland Hydrology Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland Site ID: GO Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) within a Wetland? Yes X No If yes, optional Wetland? If yes, optional Wetland Site ID: GO Secondary Indicators (minimum of two) Surface Soil Cracks (B6)					
Hydric Soil Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland Site ID: GO Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) within a Wetland? Yes X No If yes, optional Wetland? If yes, optional Wetland Site ID: GO Secondary Indicators (minimum of two Surface Soil Cracks (B6))					
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: GO Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) If yes, optional Wetland Site ID: GO Secondary Indicators (minimum of two					
Remarks: (Explain alternative procedures here or in a separate report.) Large PEM Wetland located in a depression/ drainageway field area located in a Phragmites stand. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)					
Wetland Hydrology Indicators: Secondary Indicators (minimum of two Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)					
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)					
	required)				
Surface Water (A1) Water-Stained Leaves (B9) X Drainage Patterns (B10)					
	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	ots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)	<u> </u>				
	· · · · · · · · · · · · · · · · · · ·				
-	Shallow Aquitard (D3)				
-	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)					
Field Observations:					
	No. V				
	NO A				
Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	No _				

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
Quercus rubra	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant Species Across All Strata: 2 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
··		= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 100 x 2 = 200
1	•			FAC species <u>0</u> x 3 = <u>0</u>
2.				FACU species $\underline{5}$ $x 4 = \underline{20}$
3.				UPL species <u>0</u>
4				Column Totals: 105 (A) 220 (B)
5.				Prevalence Index = B/A = 2.09
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
A Di ii a ii	100	Yes	FACW	data in Remarks or on a separate sheet)
Phragmites australis 2.		163	TAOW	Problematic Hydrophytic Vegetation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				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.
·	100	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)	100			
1				
•				Hydrophytic
2				Vegetation
J.				Present? Yes X No
4		T 0		
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet Hydrophytic vegetation found at the Data Point.	.)			
, , , ,				

Sampling Point: DP-GO

SOIL Sampling Point: DP-GO Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) Texture Remarks 10YR 3/1 90 10YR 6/6 Silt Loam 0-6 10YR 4/1 10YR 6/6 6-12 80 Silty Clay Loam 10YR 5/1 10YR 6/6 Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 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) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland GO- View facing South.



PEM Wetland GO-Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	August 25, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-GO-Upland		
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill				
Landform (hillslope,		Terrace			f (concave, con	'		Slope (%): 1		
	•					-				
Subregion (LRR or I		LRR R		Lat: 42.210068	<u>°N</u>	Long: 73.886255°W		Datum: NAD83		
Soil Map Unit Name	: HvB- Hudson	n and Vergennes s	soils, 3 to 8 per	cent slopes		NWI clas	ssification: Not N	Mapped		
Are climatic / hydrol	ogic conditions on	the site typical for	this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	? A	Are "Normal Circumstances	" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain any ansv	vers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Lludraphytic Vogo	t-tion Dropont?	Voc	No	Y	la the Campl	! Auga				
Hydrophytic Vege Hydric Soil Preser		-	No No		Is the Sample within a Wet		No _	X		
Wetland Hydrolog		_	No		If yes ontions	al Wetland Site ID:				
Remarks: (Explain a	-	_			li yes, optione	di Welianu Sile ib.				
HYDROLOGY Wetland Hydrolo	av Indicators:					Seconda	ov Indicators (minir	num of two required)		
_								num or two required)		
		is required; check		2: 11 (//	501		Soil Cracks (B6)			
Surface Water 7				Stained Leaves (F	B9)		ge Patterns (B10)			
High Water T				c Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A Water Marks	-			eposits (B15) gen Sulfide Odor ((C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Sediment De				ed Rhizospheres						
Drift Deposits	. , ,			ice of Reduced Iro	_	Stunted or Stressed Plants (D1)				
Algal Mat or			_	t Iron Reduction in	, ,	_				
Iron Deposits	, ,			uck Surface (C7)	•	Shallow Aquitard (D3)				
l —	isible on Aerial Im	agery (B7)		Explain in Remar		Microtopographic Relief (D4)				
Sparsely Veg	getated Concave S	Surface (B8)					eutral Test (D5)			
Field Observation	ns:									
Surface Water Pre	esent?	Yes No	X Depth	(inches):						
Water Table Prese		Yes No	·			Wetland Hydrology Pr	esent? Yes	No <u>X</u>		
Saturation Presen		Yes No	X Depth	(inches):						
(includes capillary			9	· · · · · · · · lnon.	'' -\ 'f eveil					
Describe Recorde	d Data (stream ya	auge, monitoring w	eli, aeriai prioto	s, previous irispe	ections), ii avaii	able:				
Remarks:										
No wetland hydr	ology present a	t the Data Point								

Sapling/Shrub Stratum (Plot size: 15 ft.)

1. Frangula alnus

Herb Stratum (Plot size: 5 ft.)

1. Solidago canadensis

3. Fragaria virginiana

4. Dactylis glomerata

2. Parthenocissus quinquefolia

5. Quercus rubra

Woody Vine Stratum (Plot size: 30 ft.)

Tree Stratum (Plot size: 30 ft.)

1. Quercus rubra

2. Carya cordiformis

		s	ampling	Point: DP-GO	O-Upland				
	- · · · · · · · · · · · · · · · · · · ·								
	Number of Domin That Are OBL, FA	nant Species		2	(A)				
	Total Number of E Species Across A			5	(B)				
	Percent of Domin That Are OBL, FA			40	(A/B)				
	Prevalence Index Total % Cov		M	lultiply by:					
I	OBL species	0		0					
	FACW species	0		0	_				
I	FAC species	25		75					
Ì	FACU species	125	•	500					
Ì	UPL species	0	•	0	_				
Ì	Column Totals:	150	(A)	575	(B)				
Ì	Column rotato.	100	• (,,)	515	(5,				
	Prevalence	e Index = B/A =	3.83						
	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X								
	Definitions of Ve Tree – Woody pla at breast height (I Sapling/shrub –	ants 3 in. (7.6 cr DBH), regardles	m) or mo	ght.	r				
	and greater than								
	Herb – All herbac size, and woody p	•			of				
	Woody vines – A height.	ıll woody vines (greater tl	han 3.28 ft in					
	Hydrophytic Vegetation Present?	Yes _	^	No <u>X</u>					

2			Vegetation Present?	Yes _	NoX	
4						
	0	= Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)						
No hydrophytic vegetation found at the Data Point.						

Absolute Dominant Indicator % Cover Species? Status

Yes FACU

Yes FAC

25

15

40 = Total Cover

50 Yes FACU

20 Yes FACU

10 Yes FAC

10 No FACU

10 No FACU

10 No FACU

_____ = Total Cover

SOIL Upland Sampling Point: DP-GO-

Profile Descri	ption: (Describe to the	depth need	ed to document the	indicator or	confirm th	ne absence	of indicators.)					
Depth	Matrix			x Features	- _{- 1}	. 2						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-7	10YR 3/3	100					Silt					
								-				
							<u></u> _					
¹ Type: C=Con	centration, D=Depletion,	RM=Reduce	ed Matrix MS=Maske	d Sand Grai	ns		² Location:	PL=Pore Lining, M=Matrix.				
		Trivi=reduct	od Matrix, MO=Maske	a cana ciai	110.							
Hydric Soil In Histosol (Polyvalue Below	Surface (S9) (I DD D			or Problematic Hydric Soils ³ : luck (A10) (LRR K, L, MLRA 149B)				
	•	-	MLRA 149B)	Surface (So) (LKK K,			Prairie Redox (A16) (LRR K, L, R)				
Black His	pedon (A2)		*	o (SO) (LDD	D MIDA	140D\		lucky Peat or Peat (S3) (LRR K, L, R)				
		•	Thin Dark Surfac			1490)						
	Sulfide (A4)	•	Loamy Mucky Mi		LKK K, L)		Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)					
	Layers (A5)	4)	Loamy Gleyed M				Thin Dark Surface (S9) (LRR K, L)					
	Below Dark Surface (A1	')	Depleted Matrix									
	rk Surface (A12)		Redox Dark Surf				Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)					
	ucky Mineral (S1)	-	Depleted Dark S									
	eyed Matrix (S4)		Redox Depression	ons (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)				
_	edox (S5)						Red Parent Material (F21)					
	Matrix (S6)						Very Shallow Dark Surface (TF12)					
Dark Sur	face (S7) (LRR R, MLRA	(149B)					Other (I	Explain in Remarks)				
³ Indicators of	nydrophytic vegetation a	nd wetland h	ydrology must be pre	sent, unless	disturbed of	r problemat	ic.					
	yer (if observed):											
Type: Con	npaction											
Depth (inc	hes): 7						Hydric Soil P	resent? Yes No X				
Remarks:							1					
	g past 7 inches due to	compactio	n. no hydric soils p	resent at t	he Data P	oint.						
	,	,	, , , , , , , , , , , ,									



Upland GO- View facing South.



Upland GO Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Hud	Ison Express			City/Count	ty: Greene			Sampling	Date:	June 8, 2022	
Applicant/Owner:	СНА				State:	NY			Sampling	Point:	DP-DC-PEM	
Investigator(s):	Tristen Peterson	n			Section, To	wnship, Range:	Catskill					
Landform (hillslope,		Depression				(concave, convex	x none).	Concave			Slope (%):	1
							•				Datum: NAD	<u>.</u> 83
Subregion (LRR or		LRR R			_at: 42.203618°	IN LOI	ng: 73.89349					
Soil Map Unit Name	e: - Hudson aı	nd Vergennes soi	ls, 3 to 8 p	ercent slo	opes			NWI clas	ssification:	Not M	apped	
Are climatic / hydrol	logic conditions o	n the site typical t	for this time	e of year?	? Yes	X No	(If no	o, explain	in Remark	s.)		
Are Vegetation	, Soil	, or Hydrolog	у	signific	antly disturbed?	Are	"Normal Circu	ımstances	" present?	Y	es X N	٥
Are Vegetation	, Soil	, or Hydrolog	у	natural	lly problematic?	(If n	eeded, explair	n any ansv	vers in Rei	marks.)		
SUMMA	ARY OF FIND	DINGS – Attac	ch site r	nap sh	owing sam	pling point lo	ocations, t	ransect	s, impo	rtant fe	eatures, etc	
Lludronbutio Vaca	etation Dresent?	Vaa	v	No		la tha Camulad	A					
Hydrophytic Vege Hydric Soil Prese		Yes Yes		_ No _ No		Is the Sampled within a Wetlan		Yes	X	No		
Wetland Hydrolog		Yes		No _	Х	If yes, optional V	Vetland Site IF	ا ···	DC .			
Remarks: (Explain						ii yes, optional v	veliand Site it	, <u>i</u>	<u> </u>			
HYDROLOGY												
Wetland Hydrolo	ogy Indicators:							Secondar	y Indicator	rs (minim	um of two requir	red)
Primary Indicators	s (minimum of on	e is required; che	ck all that	apply)				Surface	Soil Cracl	ks (B6)		
Surface Wat	ter (A1)	•	,	Water-Sta	ained Leaves (B	(9)	X Drainage Patterns (B10)					
High Water					Fauna (B13)	,	Moss Trim Lines (B16)					
Saturation (A	A3)			Marl Depo	osits (B15)			Dry-Sea	ason Wate	r Table (0	C2)	
Water Marks	s (B1)		'	Hydrogen	n Sulfide Odor (0	C1)		Crayfish	Burrows	(C8)		
Sediment De	eposits (B2)		(Oxidized	Rhizospheres o	n Living Roots (C	(3)	Saturati	on Visible	on Aerial	Imagery (C9)	
Drift Deposit	ts (B3)		'	Presence	of Reduced Iro	n (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or			!	Recent Iro	on Reduction in	Tilled Soils (C6)	(C6) X Geomorphic Position (D2)					
Iron Deposits	.s (B5)			Thin Mucl	k Surface (C7)		Shallow Aquitard (D3)					
	/isible on Aerial In	. , ,	— '	Other (Ex	kplain in Remark	(S)	Microtopographic Relief (D4)					
Sparsely Ve	getated Concave	Surface (B8)					_	FAC-Ne	eutral Test	(D5)		
Field Observatio			v	D # #								
Surface Water Pro		Yes N					M. d 111 1			V		v
							wetiand Hyd	rology Pi	esent?	Yes _	NO _	
		YesN	° _ X_	Depth (ir	ncnes):							
Water Table Pres Saturation Preser (includes capillary Describe Recorde	nt? y fringe)	Yes N Yes N gauge, monitoring	o <u>X</u>	Depth (ir	nches):	ctions), if availabl	Wetland Hyd	Irology Pi	esent?	Yes _	No _	_ <u>x</u>
Remarks: Wetland hydrolo	ogy present at t	the Data Point.										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
·	70 00001	Ореспез :	Otatus	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant Species Across All Strata: 2 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
·· <u> </u>		= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 80 x 2 = 160
Cornus racemosa	45	Yes	FAC	FAC species <u>45</u> x 3 = <u>135</u>
2.				FACU species <u>0</u> x 4 = <u>0</u>
3.				UPL species 0 $x = 0$
4.				Column Totals: 125 (A) 295 (B)
5				Prevalence Index = B/A = 2.36
6.				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	45	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Phragmites australis	00	V	E4014/	data in Remarks or on a separate sheet)
	80	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2				Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				Sapling/shrub – Woody plants less than 3 in. DBH
0				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	80	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				Hydrophytic
2				Vegetation
3				Present? Yes X No
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)				
Hydrophytic vegetation found at the Data Point.				

Sampling Point: DP-DC-PEM

SOIL Sampling Point: DP-DC-PEM Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 0-12 10YR 2/1 100 Clay 110YR 5/6 10YR 3/1 85 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.