

Upland CK at flag CK-49 - View facing northeast.



Upland CK-49 - Soils

Phase 2

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE	City/County: Schenectady / Schenectady Sampling Date: 11/09/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CK-55
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	elief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 42-45-27.12N	Long: Datum: WGS 84
Soil Map Unit Name: Ce - Cheektowaga fine sandy loam	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	ed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problemation	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 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: <u>Near Flag CK-55</u>
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Red-maple Hardwood Swamp.	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Ro	oots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6) X Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	8)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes X	No Depth (inches): 6	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ections), if available:
Remarks:		

Sampling Point: WET CK-55

· · · · ·	Absolute	Dominant	Indicator		-
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:	
1. <u>Acer rubrum</u>	85	Yes	FAC	Number of Dominant Species	
2. Prunus serotina	1	No	FACU	That Are OBL, FACW, or FAC:3 (A)	
3				Total Number of Dominant Species Across All Strata: 4 (B)	
5				(-)	
6				Percent of Dominant Species That Are OBL, FACW, or FAC:	B)
7				Prevalence Index worksheet:	
	86	=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0	
1. Acer rubrum	10	Yes	FAC	FACW species 35 x 2 = 70	
2. Pinus strobus	5	Yes	FACU	FAC species 116 x 3 = 348	
3. Lonicera morrowii	2	No	FACU	FACU species 21 x 4 = 84	
4.				UPL species 3 x 5 = 15	
5.				Column Totals: 175 (A) 517 (	B)
6.				Prevalence Index = B/A = 2.95	-
7.				Hydrophytic Vegetation Indicators:	
	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%	
1. Onoclea sensibilis	35	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$	
2. Equisetum arvense	10	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide support	ing
3. Lonicera morrowii	8	No	FACU	data in Remarks or on a separate sheet)	
4. Pinus strobus	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5. Solidado rudosa	5	No	FAC	1	
6. Rhamnus cathartica	3	No	FAC	'Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	t
7. Viburnum dentatum	3	No	FAC	Definitions of Vegetation Strata:	
8					
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh	nt.
10				Sanling/shrub - Woody plants less than 3 in DBH	
11.				and greater than or equal to 3.28 ft (1 m) tall.	
12.				Harb All borbaccous (non-woody) plants, regardle	
	69	=Total Cover		of size, and woody plants less than 3.28 ft tall.	33
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft	in
1. Celastrus orbiculatus	3	No	UPL	height.	
2					
3.				Hydrophytic	
4.				Present? Yes X No	
	3	=Total Cover			
Remarks: (Include photo numbers here or on a sepa	rate sheet.)				
	,				
					ľ

Profile Desc	cription: (Describe	to the de	pth needed to docu	ument ti	he indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 3/1	75	10YR 5/4	20	C	M	Sandy	Distinct redox concentrations
			10YR 5/6	5	<u> </u>	PL		Prominent redox concentrations
7-16	10YR 4/1	65	10YR 2/1	5	<u> </u>	M	Sandy	Faint redox concentrations
			10YR 4/6	10				Prominent redox concentrations
<sup>1</sup> Type: C=C	oncentration D=Dep	letion RM		/S=Mas	ked Sand	Grains	<sup>2</sup> l ocation: F	 2I =Pore Lining M=Matrix
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		? Polyvalue Belo	w Surfa	ce (S8) (		2 cm Mi	ick (A10) (LRR K. L. MLRA 149B)
Histic Fr	nipedon (A2)		MLRA 149B	.)	() (	,	? Coast P	rairie Redox (A16) (LRR K. L. R)
Black Hi	(A3)		2 Thin Dark Surf	7 200 (SQ		MIDA	149B) 5 cm Mi	ichy Peat or Peat (S3) (IPP K   P)
	$\sum_{n=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$			ace (09) Condo /S				Polow Surface (SS) (LRK K, L, K)
	en Sullide (A4)			sanus (a		<b>K K, L)</b>		
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(⊢1) ( <b>LR</b>	κκ, L)	Thin Da	rk Surface (S9) (LRR K, L)
<u> </u>	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mai	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy N	/lucky Mineral (S1)		Redox Dark Su	urface (F	-6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	ent Material (F21)
X Sandy F	Redox (S5)		Redox Depress	sions (F	8)		Very Sh	allow Dark Surface (F22)
? Stripped	Matrix (S6)		 Marl (F10) (LR	<b>RK</b> .L)	,		Other (E	xolain in Remarks)
? Dark Su	rface (S7)			, _,				
3	<b>6</b> 1 1 1 <b>1 1 1 1</b>							
Restrictive	T nydropnytic vegetat Layer (if observed):	ion and v	vetiand hydrology mu	ust be pi	resent, ur	iless alsi	turbed or problematic.	
Туре:								
Depth (i	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								





Wetland CK-55 - Soils

Phase 2

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE		City/C	ounty: Schene	ectady / Schenect	tady	Sampling Date:	11/09/21
Applicant/Owner: <u>TDI</u>				State:	NY	Sampling Point:	UPL CK-55
Investigator(s): C. Scrivner, J. Greaves			Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): Hillslope		Local relief (c	oncave, conve	x, none): <u>Conve</u>	ĸ	Slope	• %: <u>3</u>
Subregion (LRR or MLRA): LRR R	Lat:	42-45-27.00N	Long:	73-58-40.34W		Datum:	WGS 84
Soil Map Unit Name: Ce - Cheektowaga fine sand	ly loar	n		NWI classif	ication:	NA	
Are climatic / hydrologic conditions on the site typic	al for	this time of year?	Yes X	No	(If no, e	xplain in Remarks	s.)
Are Vegetation, Soil, or Hydrology		_significantly disturbed?	Are "Norm	nal Circumstance	es" prese	ent? Yes X	No
Are Vegetation, Soil, or Hydrology		_naturally problematic?	(If needed	d, explain any ans	swers in	Remarks.)	
SUMMARY OF FINDINGS – Attach site	map	showing sampling	point locat	ions, transec	ts, im	portant featur	res, etc.
Hydrophytic Vegetation Present? Yes		No X Is th	ne Sampled A	rea			

Hydric Soil Present?	Yes	NoX	within a Wetland? Yes <u>No X</u>
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu	es here or in a	separate report.)	
Deciduous Forest.			

Wetland Hydrology Indica	tors:				Secondary Indicators (min	imum of two required)
Primary Indicators (minimur	n of one is requ	lired; check all	that apply)		Surface Soil Cracks (I	36)
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B1	0)
High Water Table (A2)		Aquatio	: Fauna (B13)		Moss Trim Lines (B16	)
Saturation (A3)		Marl De	eposits (B15)		Dry-Season Water Ta	ble (C2)
Water Marks (B1)		Hydrog	en Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	)	Oxidize	ed Rhizospheres on Living	Roots (C3)	Saturation Visible on A	Aerial Imagery (C9)
Drift Deposits (B3)		Presen	ce of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)
Algal Mat or Crust (B4)		Recent	Iron Reduction in Tilled S	oils (C6)	Geomorphic Position	(D2)
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on A	erial Imagery (E	37) Other (	Explain in Remarks)		Microtopographic Reli	ef (D4)
Sparsely Vegetated Col	ncave 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):	- Wetlar	nd Hydrology Present?	Yes No X
(includes capillary fringe)				-		
Describe Recorded Data (st	ream gauge, m	ionitoring well,	aerial photos, previous ins	pections), if	available:	
Remarks:						

Sampling Point: UPL CK-55

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30'</u> )	<u>% Cover</u>	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	75	Yes	FAC	Number of Dominant Species
2. Prunus serotina	5	. <u>No</u>	FACU	That Are OBL, FACW, or FAC:(A)
3. <u>Malus sp.</u>	5	. <u>No</u>	UPL	Total Number of Dominant
4				Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:
7				Prevalence Index worksheet:
	85	_=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Acer rubrum	10	Yes	FAC	FACW species 2 x 2 = 4
2. Prunus serotina	5	Yes	FACU	FAC species 87 x 3 =261
3. Pinus strobus	3	No	FACU	FACU species x 4 =108
4				UPL species10 x 5 =50
5				Column Totals: <u>126</u> (A) <u>423</u> (B)
6.		- -		Prevalence Index = B/A =3.36
7.				Hydrophytic Vegetation Indicators:
	18	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Carex sp.	8	Yes		$3 - Prevalence Index is \le 3.0^1$
2. Lonicera morrowii	5	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Rubus allegheniensis	5	Yes	FACU	data in Remarks or on a separate sheet)
4. Quercus alba	2	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Pinus strobus	2	No	FACU	
6. Solidago gigantea	2	No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Solidado rudosa	2	No	FAC	Definitions of Vegetation Strata:
8				
9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
12				
12		-Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Weady Vino Stratum (Plot size: 30)				
Woody vine Stratum (Flot Size. 50 )	5	Voc	וסו ו	Woody vines – All woody vines greater than 3.28 ft in
		105		neigni.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Descriptio	n: (Describe to	o the de	oth needed to docu	ument t	he indica	tor or co	onfirm the absence of i	indicators.)	
Depth	Matrix		Redo	x Featur	res				
(inches) C	olor (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	3
0-16	10YR 3/3	93	10YR 2/1	2	<u> </u>	M	Sandy	Faint redox conce	entrations
			10YR 5/6	5	<u> </u>	M		Distinct redox cond	centrations
<u> </u>									
——  —									
<sup>1</sup> Type: C=Concent	tration, D=Deple	etion, RM	Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matri	х.
Hydric Soil Indica	tors:						Indicators for	Problematic Hydric	Soils <sup>3</sup> :
Histosol (A1)			Polyvalue Belo	w Surfa	ice (S8) (	LRR R,	2 cm Muc	k (A10) ( <b>LRR K, L, MI</b>	<b>_RA 149B</b> )
Histic Epipedo	n (A2)		MLRA 149B	)			Coast Pra	irie Redox (A16) (LRF	R K, L, R)
Black Histic (A	.3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1	49B)5 cm Muc	ky Peat or Peat (S3) (	LRR K, L, R)
Hydrogen Sulf	ide (A4)		High Chroma S	Sands (S	511) (LRI	R K, L)	Polyvalue	Below Surface (S8) (I	_RR K, L)
Stratified Laye	rs (AD) w Dark Surface	(A11)	Loamy Gleved	Matrix (	(F1) ( <b>LR</b> I (E2)	<b>K K, L</b> )		Surface (S9) (LRR K,	IDDKID)
Thick Dark Su	face (A12)	(~``)	Depleted Matri	(F3)	(12)		Piedmont	Floodolain Soils (F19)	(MI RA 149B)
Sandy Mucky	Mineral (S1)		Redox Dark Su	irface (F	-6)		Mesic Spo	odic (TA6) ( <b>MLRA 144</b>	A, 145, 149B)
Sandy Gleyed	Matrix (S4)		Depleted Dark	Surface	) (F7)		Red Parer	nt Material (F21)	
Sandy Redox	(S5)		Redox Depress	sions (F	8)		Very Shall	low Dark Surface (F22	?)
Stripped Matrix	k (S6)		Marl (F10) (LR	<b>R K</b> , L)			Other (Ex	plain in Remarks)	
Dark Surface (	S7)								
3							1 I II (°-		
Protectors of hydro	opnytic vegetation	on and w	etiand hydrology mu	ist be pi	resent, ur	iless dist	urbed or problematic.		
	(ii observed):								
Depth (inches)							Ibuduia Call Dresent	2 V.a	
Deptil (inches)							Hydric Soll Fresent	res	
Remarks:									



Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	Sampling Date: <u>11/10/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>1 -4</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenectady</u>	
Landform (hillslope, terrace, etc.):	_ Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.75396</u>	0 Long: <u>-73.975615</u>	Datum: NAD83
Soil Map Unit Name:	NWI class	ification: PFM
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 🛛 No 🔲 (If no, explain in	n Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> signific	cantly disturbed? Are "Normal Circumstances	s" present? Yes 🔟 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> natura	Ily problematic? (If needed, explain any answ	wers in Remarks.)

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

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

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2) 🛛 Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 🛛 🔲 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 🛛 No 🔲 Depth (inches): 1	
Water Table Present? Yes <u>Ves</u> No <u>Depth</u> (inches): 6	
Saturation Present? Yes <u>X</u> No <u>Depth</u> (inches): <sub>Surface</sub>	Wetland Hydrology Present? Yes 🖄 No 🗌
Saturation Present? Yes <u>No</u> Depth (inches): <sub>Surface</sub> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present? Yes <u>V</u> No <u>Depth</u> (inches): <sub>Surface</sub> (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>X</u> No ctions), if available:
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present?       Yes       Yes         Ctions), if available:
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present? Yes <u>V</u> No <u>Depth</u> (inches): <sub>Surface</sub> (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes No Depth (inches): Surface (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)         Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes No Depth (inches): Surface (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)         Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No

Sampling Point: <u>L-4</u>

Trans Objectures (Plat since 20	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>		Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3		<u> </u>	Species Across All Strata: (B)
4		<u> </u>	Percent of Dominant Species
5		<u> </u>	That are OBL, FACW, of FAC: (A/B)
6		<u> </u>	Prevalence Index worksheet:
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )			FACW species x 2 =
1			FAC species x 3 =
2.			FACU species x 4 =
3			UPL species x 5 =
0			Column Totals: (A) (B)
4		<u> </u>	Prevalence Index = B/A =
S		<u> </u>	Urdrankrája Vagototian Indiantovar
6		<u> </u>	Number of the second seco
7		<u> </u>	$\square$ 2 - Dominance Test is >50%
		= Total Cover	$\square$ 3 - Prevalence Index is <3 0 <sup>1</sup>
Herb Stratum (Plot size: <u>5</u> )	00		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	90		Problematic Hydrophytic Vegetation <sup>1</sup> (Evolution)
2			
3			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4		<u> </u>	
5		<u> </u>	Definitions of Vegetation Strata:
6		<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		<u> </u>	at breast height (DBH), regardless of height.
8		<u> </u>	Sapling/shrub – Woody plants less than 3 in. DBH
9		<u> </u>	
10		<u> </u>	Herb – All herbaceous (non-woody) plants, regardless of
11.			size, and woody plants less than 5.26 it tail.
12			Woody vines – All woody vines greater than 3.28 ft in height
	90	= Total Cover	1015m.
Weady Vino Stratum (Plat size: 20 )			
1		<u> </u>	Hydrophytic
2		<u> </u>	Vegetation
3		·	
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ment the i	indicator	or confirm	the absence	of indicators.)
Depth (inches)	Matrix	%	Color (moist)	<u>x Feature</u> %	<u>s</u> Type <sup>1</sup>	$1 \text{ oc}^2$	Texture	Remarks
<u>(incries)</u> 0-16	10YR 2/2	<u> </u>	10yr/5/8	- <u>%</u> 10		-	SCILO	Prominent redox
					-	-		
					<u> </u>			
		- <u> </u>	-Roducod Matrix M				<sup>2</sup> L ocation	PI-Poro Liping M-Matrix
	Indicators:			S-INASKE		ams.	Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ej Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Stripped Dark Su	(A1) pipedon (A2) istic (A3) on Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, I f hydrophytic vegeta Layer (if observed)	e (A11) MLRA 149 tion and w	Polyvalue Belo     MLRA 149B     Thin Dark Surfa     Loamy Mucky I     Loamy Gleyed     Depleted Matrix     Redox Dark Su     Depleted Dark     Redox Depress B) etland hydrology must	w Surface ) ace (S9) (I Mineral (F Matrix (F2 x (F3) urface (F6) Surface (F sions (F8)	(S8) (LRI LRR R, Mi 1) (LRR K 2) 7) 7)	R R, LRA 149B , L) s disturbed	2 cm M     Coast     5 cm M     Dark S     Polyva     Thin D     Iron-M     Piedm     Mesic     Red P     Very S     Other     or problematic	Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Prairie Redox (A16) ( <b>LRR K, L, R</b> ) Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) Surface (S7) ( <b>LRR K, L, M</b> ) alue Below Surface (S8) ( <b>LRR K, L</b> ) Dark Surface (S9) ( <b>LRR K, L</b> ) langanese Masses (F12) ( <b>LRR K, L, R</b> ) ont Floodplain Soils (F19) ( <b>MLRA 149B</b> ) Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks)
Type:	, ,						Uvdrie Seil	
Remarks:	ches)						Hydric Soli	



Wetland L-2 (PEM)- View facing west

Segment 8-Package 5A

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 



Wetland L - Soils

## SITE PHOTOGRAPHS

Phase 5

# Champlain Hudson Power Express



Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	Sampling Date: <u>11/10/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>M-5</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenectady</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.7527</u>	67 Long: <u>-73.975023</u>	Datum: NAD83
Soil Map Unit Name:	NWI class	sification: PSS
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 🔀 No 🔲 (If no, explain ir	n Remarks.)
Are Vegetation NO, Soil NO, or Hydrology NO signifi	icantly disturbed? Are "Normal Circumstances	s" present? Yes 🔀 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> natura	ally problematic? (If needed, explain any ans	wers in Remarks.)

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

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

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2) 🛛 Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 🛛 🔲 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 🛛 No 🔲 Depth (inches): 2	
Water Table Present? Yes <u>Ves</u> No <u></u> Depth (inches): 3	
Saturation Present? Yes <u>X</u> No <u>D</u> Depth (inches): Surface	Wetland Hydrology Present? Yes 🖄 No 🗌
Saturation Present? Yes <u>No</u> Depth (inches): <sub>Surface</sub> (includes capillary fringe)	Wetland Hydrology Present? Yes 🖄 No 🗌
Saturation Present? Yes X No Depth (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present?       Yes       X
Saturation Present? Yes <u>V</u> No <u>Depth</u> (inches): <sub>Surface</sub> (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present?       Yes       Image: Comparison of the second seco
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): <sub>Surface</sub> (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes X No Depth (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u> </u> No ctions), if available:
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present?       Yes       Yes       Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>K</u> No
Saturation Present?       Yes X       No Depth (inches): Surface         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Remarks:	Wetland Hydrology Present? Yes <u> </u> No ctions), if available:
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>No</u> ctions), if available:
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No ctions), if available:
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No

Trop Stratum (Plot size: 30 )	Absolute	Dominant Indicator	Dominance Test worksheet:
1	- 76 COver		Number of Dominant Species
2			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			
4		<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5		<u> </u>	
6		<u> </u>	Prevalence Index worksheet:
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )			FACW species x 2 =
1. <u>Cornus sericea</u>	50	YES FACW	FAC species x 3 =
2		<u> </u>	FACU species x 4 =
3		<u> </u>	Column Totals: (A) (B)
4		<u> </u>	
5			Prevalence Index = B/A =
6		<u> </u>	Hydrophytic Vegetation Indicators:
7.			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5			3 - Prevalence Index is ≤3.0 <sup>1</sup>
1 Onoclea sensibilis	70		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric call and watland hydrology must
			be present, unless disturbed or problematic.
T			Definitions of Vegetation Strata:
S			Tree Weedy plants 2 in (7.6 cm) or more in diameter
0		<u> </u>	at breast height (DBH), regardless of height.
		<u> </u>	Sanling/shruh Woody plants loss than 3 in DBH
8		··	and greater than or equal to 3.28 ft (1 m) tall.
9		<u> </u>	Herb - All herbaceous (non-woody) plants regardless of
10		<u> </u>	size, and woody plants less than 3.28 ft tall.
11		<u> </u>	<b>Woody vines</b> – All woody vines greater than 3.28 ft in
12		<u> </u>	height.
	90	= Total Cover	
Woody Vine Stratum (Plot size: 30 )			
1		·	
2		<u> </u>	Hydrophytic Vegetation
3		<u> </u>	Present? Yes <u>X</u> No
4.			
		= Total Cover	
Remarks: (Include photo numbers here or on a separate s	sheet.)		

(in the set)	Matrix		Red	<u>ox Feature</u>	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 2/1	80	7.5yr/4/6	20	. =		SiLo	Prominent redox
					-			
					-	-		
				·	· <u>-</u>			
					· <u>-</u>			
					-			
					-	-		
<u> </u>					·			
				·	·			
					· <u>-</u>			
					-	-		
Type: C=C	oncentration, D=Dep	oletion, RN	/=Reduced Matrix, N	IS=Masked	d Sand Gra	ains.	<sup>2</sup> Locatior	
Hydric Soil	Indicators:		_				Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) ( <b>LR</b>	R,		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic E	pipedon (A2)			\$) face (SO) (I				Prairie Redox (A16) (LRR K, L, R)
	an Sulfide (A4)			Mineral (F	1) (LRR K	LKA 149D) . L)		Surface (S7) (LRR K. L. M)
	d Layers (A5)		Loamy Gleyed	Matrix (F2	2)	, _,		alue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfac	ж (А11)	Depleted Matri	ix (F3)			Thin C	Dark Surface (S9) ( <b>LRR K, L</b> )
	ark Surface (A12)		Redox Dark Si	urface (F6)	) `			langanese Masses (F12) (LRR K, L, R)
Sandy N	Aucky Mineral (S1)		Depleted Dark     Depleted Dark     Depleted Dark	Surface (F	-7)			iont Floodplain Soils (F19) (MLRA 149B Spedic (TA6) (MLPA 144A, 145, 149B)
Sandy F	Redox (S5)			3013 (10)				Parent Material (F21)
Stripped	I Matrix (S6)						🔲 Very S	Shallow Dark Surface (TF12)
Dark Su	rface (S7) ( <b>LRR R,</b> I	MLRA 149	IB)				U Other	(Explain in Remarks)
		ation and v	vetland hydrology mu	ist he nresi	ent unless	disturbed	or problemati	c
	f hydrophytic vegeta	alon and v						
<sup>3</sup> Indicators o Restrictive	f hydrophytic vegeta Layer (if observed)	:						
<sup>3</sup> Indicators o <b>Restrictive</b> Type:	f hydrophytic vegeta Layer (if observed)	:	_					
<sup>3</sup> Indicators o Restrictive Type: Depth (in	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	l Present? Yes 🗵 No 🔲
<sup>3</sup> Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):	:	-				Hydric Soil	l Present? Yes 🛛 No 🗌
<sup>3</sup> Indicators o <b>Restrictive</b> Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):	: 	-				Hydric Soil	l Present? Yes 🗵 No 🗌
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) 	: 	-				Hydric Soil	l Present? Yes 🛛 No 🗌
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):	: 	-				Hydric Soil	l Present? Yes 🔀 No 🗌
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	l Present? Yes 🛛 No 🗌
Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	l Present? Yes 🔼 No 🗌
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) 		-				Hydric Soil	l Present? Yes 🔀 No 🗌
Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	I Present? Yes 🛛 No 🗌
<sup>3</sup> Indicators o <b>Restrictive</b> Type: <u></u> Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	l Present? Yes 🔼 No 🔲
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	I Present? Yes 🛛 No 🗌
<sup>3</sup> Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	I Present? Yes 🛛 No 🔲
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):	:	-				Hydric Soil	I Present? Yes 🔀 No
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):	: 	-				Hydric Soil	I Present? Yes 🔀 No 🗖
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):		-				Hydric Soil	I Present? Yes 🔀 No 🗖
Indicators o Restrictive Type: Depth (in Remarks:	f hydrophytic vegeta Layer (if observed) ches):	: 	-				Hydric Soil	I Present? Yes 🔀 No 🗖





Project/Site: CHPE	City/County: Guilderland/Albany	Sampling Date: 10/5/2022
Applicant/Owner: TDI	State:N	IY Sampling Point: P5-X-27 Wet PFO
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:	
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): <u>convex</u>	Slope %: 2
Subregion (LRR or MLRA): LRR R Lat	: <u>42 45' 01"N</u> Long: <u>-73 58' 27"W</u>	Datum: WGS84
Soil Map Unit Name: <u>Sh - Shaker fine sandy loam</u>	NWI classificat	ion: PFO1
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes X No (If r	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	_significantly disturbed? Are "Normal Circumstances" p	oresent? Yes X No
Are Vegetation, Soil, or Hydrology	_naturally problematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point locations, transects,	important features, etc.

Hydrophytic Vegetation Present?	Yes_	X	No_	Is the Sampled Area
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID: Wetland P5-X near flag P5-X-27
Remarks: (Explain alternative procedur Red maple hardwood swamp.	es here or i	in a se	eparate	port.)

Wetland Hydrology Indicators:	-	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requi		Surface Soil Cracks (B6)			
Surface Water (A1)	_	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)		
x Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	ots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)	_	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	x Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relief (D4)		
x Sparsely Vegetated Concave Surface (E	38)	_	X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No ///		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No ///		
Saturation Present?       Yes         (includes capillary fringe)         Describe Recorded Data (stream gauge, model)         Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No ///		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No ///		
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No x Depth (inches):	Wetland	Hydrology Present? Yes X No ///		

Sampling Point: 5-X-27 Wet PF

	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
1. Acer rubrum	50	Yes	FAC	Number of Dominant Species			
2. Quercus bicolor	15	No	FACW	That Are OBL, FACW, or FAC:(A)			
3. Populus deltoides	15	No	FAC	Total Number of Dominant			
4. Ulmus americana	10	No	FACW	Species Across All Strata: 5 (B)			
5				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 80.0% (A/B)			
7				Prevalence Index worksheet:			
	90	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =			
1. Alnus incana	15	Yes	FACW	FACW species <u>125</u> x 2 = <u>250</u>			
2. Ilex verticillata	10	Yes	FACW	FAC species 75 x 3 = 225			
3. <u>Betula populifolia</u>	5	No	FAC	FACU species <u>15</u> x 4 = <u>60</u>			
4. Prunus serotina	5	No	FACU	UPL species <u>5</u> x 5 = <u>25</u>			
5				Column Totals: 220 (A) 560 (B)			
6				Prevalence Index = B/A =2.55			
7.				Hydrophytic Vegetation Indicators:			
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%			
1. Onoclea sensibilis	65	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$			
2. Impatiens capensis	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportir			
3. Rosa multiflora	10	No	FACU	data in Remarks or on a separate sheet)			
4. Solidago rugosa	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.				<sup>1</sup> Indiactors of hydric coil and watland hydrology must			
6.				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8.				<b>Tree</b> Woody plants 3 in (7.6 cm) or more in			
9.				diameter at breast height (DBH), regardless of height.			
10.				Sonling/ohrub Woody plants loss than 2 in DPH			
11.				and greater than or equal to 3.28 ft (1 m) tall.			
12.				Here All berbasseus (non woody) plants, regardless			
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')				Weedwines All weedwines greater than 2.29 ft in			
1. Celastrus orbiculatus	5	Yes	UPL	height.			
2.							
3.				Hydrophytic			
4.				Present? Yes X No			
	5	=Total Cover					
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Profile Desc	ription: (Describe	to the de	pth needed to doc	ument tl	ne indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Peat	
4-9	10YR 3/1	70	10YR 2/1	10	c		Sandy	Faint redox concentrations
			10YR 5/3	20	C			Distinct redox concentrations
9-16	10YR 4/1	70	7.5YR 5/8	25	C		Sandy	Prominent redox concentrations
			10YR 2/1	5	C			Faint redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	MS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Histosol Histic Ep Black Hi Hydroge Stratifiec Thick Da Sandy M Sandy G X Sandy R Stripped X Dark Sur	(A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) lucky Mineral (S1) pleyed Matrix (S4) edox (S5) Matrix (S6) face (S7)	e (A11)	x Polyvalue Belo MLRA 149B x Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LF	ow Surfa ) face (S9) Sands (S Mineral I Matrix ( ix (F3) urface (F Surface sions (Fi <b>RR K, L</b> )	ce (S8) (I ( <b>LRR R</b> 511) ( <b>LRF</b> (F1) ( <b>LRF</b> (F1) ( <b>LR</b> (F2) (F7) 8)	LRR R, , MLRA <sup>,</sup> R K, L) R K, L)	2 cm Mu ? Coast Pi 9 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Mesic Sj Red Par Very Sha Other (E	ark (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) the Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rk Surface (S9) (LRR K, L) rh Surface (S9) (LRR K, L, R) th Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (F22) explain in Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegetat	ion and w	etland hydrology m	ust be pr	resent, ur	nless dist	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Type: Depth (ir	iches):						Hydric Soil Prese	nt? Ves X No
Bomorko:								
Remarks: This data for Version 7.0,	m is revised from No 2015 Errata. (http://w	rthcentra ww.nrcs.	and Northeast Reg usda.gov/Internet/F	jional Su SE_DOC	pplemen CUMENT	t Version S/nrcs14	2.0 to include the NR( 2p2_051293.docx)	CS Field Indicators of Hydric Soils,

Project/Site: CHPE		City/County:	Guilderland/Alba	any	Sa	ampling Date:	10/5/2022
Applicant/Owner: TDI				State:	NY	Sampling Point:	P5-X-32 Wet
Investigator(s): J. Greaves & C. So	crivner	Sec	tion, Township, I	Range:			
Landform (hillside, terrace, etc.):	depression	Local relief (concave	e, convex, none)	: convex		Slope	%:
Subregion (LRR or MLRA): LRR I	R Lat:	42 45' 01"N	Long:73 58'	25"W		Datum:	WGS84
Soil Map Unit Name: Sh - Shaker	fine sandy loam		NV	VI classific	cation: P	PEM1	
Are climatic / hydrologic conditions	on the site typical for	this time of year? Ye	es <u>X</u> No	o (	lf no, exp	olain in Remarks	.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed? A	re "Normal Circu	Imstances	" present	? Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally problematic? (If	needed, explair	n any ans	wers in Re	emarks.)	
SUMMARY OF FINDINGS -	- Attach site map	showing sampling point	t locations, t	ransect	ts, impo	ortant featur	es, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area
Hydric Soil Present?	Yes X	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: Wetland P5-X near flag P5-X-32
Remarks: (Explain alternative procedures Common reed marsh.	here or in a s	eparate report.)	

Wetland Hydrology Indicators:	Wetland Hydrology Indicators:					
Primary Indicators (minimum of one is requir	Surface Soil Cracks (B6)					
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	bots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6) x Geomorphic Position (D2)				
Iron Deposits (B5)	X Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (E	38)	X FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes x	No Depth (inches): 0	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes x (includes capillary fringe)	No Depth (inches):0	Wetland Hydrology Present? Yes X No				
Saturation Present?       Yes       x         (includes capillary fringe)       Describe Recorded Data (stream gauge, mo	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetland Hydrology Present?         Yes X         No           victions), if available:         No         No				
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes x (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetland Hydrology Present?       Yes X       No         ctions), if available:				
Saturation Present? Yes x (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present?       Yes x         (includes capillary fringe)	No Depth (inches):0	Wetland Hydrology Present? Yes X No				
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):0 nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes x (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes x (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No Depth (inches):0 nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes x (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No Depth (inches):0 nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present?       Yes x         (includes capillary fringe)         Describe Recorded Data (stream gauge, mo         Remarks:	No Depth (inches):0 nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present?       Yes x         (includes capillary fringe)         Describe Recorded Data (stream gauge, mo         Remarks:	No Depth (inches):0 nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes x (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No Depth (inches):0 nitoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No				

Sampling Point: P5-X-32 Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	10	Yes	FAC	Number of Dominant Species
2. Fraxinus pennsylvanica	5	Yes	FACW	That Are OBL, FACW, or FAC:6 (A)
3				Total Number of Dominant Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
7				Prevalence Index worksheet:
··		=Total Cover		Total % Cover of Multiply by
Sapling/Shrub Stratum (Plot size: 15')				$\frac{1}{\text{OBL species}} = 5$
1. Viburnum dentatum	5	Yes	FAC	FACW species 108 x 2 = 216
2. Ilex verticillata	5	Yes	FACW	FAC species $15 \times 3 = 45$
3. Salix alba	3	Yes	FACW	FACU species 0 x 4 = 0
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 128 (A) 266 (B)
6.				Prevalence Index = B/A = 2.08
7.				Hydrophytic Vegetation Indicators:
	13	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Phragmites australis	90	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Pilea pumila	3	No	FACW	data in Remarks or on a separate sheet)
4. Eupatorium perfoliatum	2	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>X</u> No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument t	he indica	ator or co	onfirm the absence of	f indicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-1	10YR 2/1	100					Muck		
1-9	10YR 3/1	65	10YR 5/3	10	c		Loamy/Clayey	Distinct re	dox concentrations
			10YR 4/6	25	с	PL/M		Prominent r	edox concentrations
9-16	10YR 4/2	60	10YR 5/6	40	C		Sandy	Prominent r	edox concentrations
							·		
		- <u> </u>							
		·							
'Type: C=C	oncentration, D=Dep	letion, R	M=Reduced Matrix, N	MS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining,	M=Matrix.
Hydric Soil	Indicators:				(00) (		Indicators fo	or Problematic	Hydric Soils":
	(A1)		Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,	2 cm Mu	ck (A10) ( <b>LRR</b>	K, L, MLRA 149B)
Histic Epipedon (A2) MLRA 149B) Coast						Coast Pr	airie Redox (A	(LRR K, L, R)	
Black Hi	istic (A3)		Thin Dark Surf	face (S9	) (LRR R	, MLRA ′	149B)5 cm Mu	cky Peat or Pe	at (S3) ( <b>LRR K, L, R</b> )
Hydroge	en Sulfide (A4)		High Chroma	Sands (S	611) ( <b>LRI</b>	R K, L)	Polyvalu	e Below Surfac	e (S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	<b>R K, L</b> )	Thin Dar	k Surface (S9)	(LRR K, L)
X Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	l Matrix (	F2)		Iron-Man	iganese Masse	s (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Depleted Matr	ix (F3)			Piedmon	it Floodplain Sc	ils (F19) ( <b>MLRA 149B</b> )
Sandy M	/lucky Mineral (S1)		X Redox Dark S	urface (F	-6)		Mesic Sp	odic (TA6) ( <b>MI</b>	<b>_RA 144A, 145, 149B</b> )
Sandy G	y Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent						ent Material (F2	:1)	
Sandy R	_Sandy Redox (S5) Redox Depressions (F8)						Very Sha	allow Dark Surfa	ace (F22)
Stripped Matrix (S6)Marl (F10) (LRR K, L)						Other (E	xplain in Rema	rks)	
Dark Su	rface (S7)								
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and v	vetland hydrology m	ust be pi	resent, ui	nless dist	urbed or problematic.		
Type	Layer (II Observed):	•							
Depth (ii	nches):						Hydric Soil Preser	nt? Yes	sNo
Remarks <sup>.</sup>									
This data for Version 7.0,	rm is revised from No 2015 Errata. (http://v	orthcentra www.nrcs	ll and Northeast Reg .usda.gov/Internet/F	jional Su SE_DO0	pplemen CUMENT	t Version S/nrcs14	2.0 to include the NRC 2p2_051293.docx)	CS Field Indicat	ors of Hydric Soils,

Project/Site: CHPE	City/County: Guilderland/Albany San	npling Date: <u>10/5/2022</u>
Applicant/Owner: TDI	State: NY State: NY	ampling Point: P5-X-27 Upl
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope	Local relief (concave, convex, none): convex	Slope %: 5
Subregion (LRR or MLRA): LRR R Lat:	42 50' 01"N Long:73 58' 25"W	Datum: WGS84
Soil Map Unit Name: <u>Sh - Shaker fine sandy loam</u>	NWI classification:	
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes X No (If no, expla	in in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers in Rer	narks.)
	chewing compliant point locations, transactor import	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>No</u> Yes <u>X</u> No Yes No	X     Is the Sampled Area       within a Wetland?     Yes     No     X       X     If yes, optional Wetland Site ID:     Upland adjacent to Wetland P5-X
Remarks: (Explain alternative procedure Beech maple mesic forest.	es here or in a separate	report.)

welland hydrology mulcators	:			Secondary Indicators (minimum of two req	<u>iired)</u>	
Primary Indicators (minimum of	one is required; che		Surface Soil Cracks (B6)			
Surface Water (A1)	W	/ater-Stained Leaves (B9)		Drainage Patterns (B10)		
High Water Table (A2)	A	quatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	M	Dry-Season Water Table (C2)				
Water Marks (B1)	н	ydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	0	xidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C	9)	
Drift Deposits (B3)	P	resence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		ecent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	TI	hin Muck Surface (C7)		 Shallow Aquitard (D3)		
Inundation Visible on Aerial	Imagery (B7) O	ther (Explain in Remarks)		Microtopographic Relief (D4)		
Sparsely Vegetated Concav	ve Surface (B8)			FAC-Neutral Test (D5)		
Field Observations:						
Surface Water Present? Ye	es No	x Depth (inches):				
Water Table Present? Ye	es No	x Depth (inches):				
Saturation Present? Yes No x Depth (inches): Wetlar						
Saturation Present? Ye	es No	x Depth (inches):	Wetlan	nd Hydrology Present? Yes I	lo X	
Saturation Present? Yo (includes capillary fringe)	es No	x Depth (inches):	Wetlan	nd Hydrology Present? Yes I	lo_X_	
Saturation Present?       Ye         (includes capillary fringe)       Ye         Describe Recorded Data (stream	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan ections), if	available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear	es No n gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I 	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	
Saturation Present? Yo (includes capillary fringe) Describe Recorded Data (strear Remarks:	es No m gauge, monitoring	x Depth (inches): well, aerial photos, previous inspe	Wetlan	nd Hydrology Present? Yes I available:	lo <u>X</u>	

Sampling Point: P5-X-27 Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator	Dominanco Test workshoot
1 Ouercus rubra	40	Ves	FACIL	Dominance rest worksheet.
	40	Vos		Number of Dominant Species
	40	<u> </u>		
3.         Acer rubrum           4.	10	NO	FAC	Total Number of Dominant         Species Across All Strata:         6         (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)
7				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Hamamelis virginiana	70	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species x 3 =51
3				FACU species <u>166</u> x 4 = <u>664</u>
4.				UPL species 0 x 5 = 0
5.				Column Totals: 183 (A) 715 (B)
6.				Prevalence Index = B/A = 3.91
7.				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1 Hamamelis virginiana	5	Yes	FACU	$3 - Prevalence Index is \leq 3.0^{1}$
2 Fagus grandifolia	5	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Parathelynteris novehoracensis	5	Ves	FAC	data in Remarks or on a separate sheet)
A Majorthomum considence		No		Problematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
4. Malanthemum canadense				
5. Mitchella repens			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Acer rubrum		<u>No</u>	FAC	be present, unless disturbed or problematic.
7. Quercus rubra	2	No	FACU	Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	23	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: 30')				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1

Profile Desc	ription: (Describe	to the de	pth needed to doc	ument tl	he indica	ator or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	95	10YR 4/3	5	c	m	Peat	Distinct redox concentrations
6-18	10YR 5/6	90	10YR 2/1	5	C		Sandy	Prominent redox concentrations
			10YR 5/4	5	c	m		Distinct redox concentrations
							·	
Type: C=Co	oncentration, D=Dep	letion, RN	1=Reduced Matrix, N	NS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Histosol	$(\Delta 1)$		Polyvalue Belo	w Surfa	ce (S8) (			
Histic Fr	bipedon (A2)		MI RA 149B		ce (00) (	LIXIX IX,	2 cm we	rairie Redox (A16) ( $\mathbf{IRR} \times \mathbf{I} \times \mathbf{R}$ )
Black Hi	stic (A3)		Thin Dark Surf	, face (S9)		. MLRA 1	149B) 5 cm Mu	ickv Peat or Peat (S3) ( <b>LRR K. L. R</b> )
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	511) ( <b>LRI</b>	, R K, L)	Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	ix (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149E</b>
Sandy M	lucky Mineral (S1)		Redox Dark Si	urface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Sha	allow Dark Surface (F22)
_x_Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RR K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
<sup>3</sup> Indicators of	f hydrophytic ycgotot	tion and u	atland bydrology m	uat ha nr	coont u	alaaa diat	urbod or problematic	
Restrictive	aver (if observed):		ettand hydrology m	usi be pi	esent, ui			
Type:								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:							•	
This data for	m is revised from No	orthcentra	and Northeast Reg	ional Su	pplemen	t Version	2.0 to include the NR	CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://v	ww.nrcs.	usda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	Sampling Date: <u>11/10/21</u>
Applicant/Owner: <u>_CHA</u>	State	e: <u>NY</u> Sampling Point: <u>N-3</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenect</u>	ady
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>_LRR R</u> Lat	: <u>42.750630</u> Long: <u>-73.973791</u>	Datum: <u>NAD83</u>
Soil Map Unit Name:	N'	WI classification: <u>PFM</u>
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes 🔀 No 🔲 (If no, e	explain in Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u>	significantly disturbed? Are "Normal Circun	nstances" present? Yes 🔀 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u>	naturally problematic? (If needed, explain	any answers in Remarks.)

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

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

Wetland Hydrology Indicators:         Secondary Indicators (minimum of two re	quired)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) 🛛 Water-Stained Leaves (B9) 🔲 Drainage Patterns (B10)	
High Water Table (A2) 🔲 Aquatic Fauna (B13) 🗌 Moss Trim Lines (B16)	
Saturation (A3) 🔲 Marl Deposits (B15) 🗍 Dry-Season Water Table (C2)	
Water Marks (B1) 🛛 Hydrogen Sulfide Odor (C1) 🗌 Crayfish Burrows (C8)	
Sediment Deposits (B2) 📃 Oxidized Rhizospheres on Living Roots (C3) 📃 Saturation Visible on Aerial Imagery	(C9)
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7) 🔲 Other (Explain in Remarks) 📃 Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>Ves</u> No <u>Depth</u> (inches): 4	_
Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), il available.	
Remarks:	

Sampling Point: <u>N-3</u>

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Indicator	Dominance Test worksheet:
1	<u></u>		Number of Dominant Species
2			
2			Total Number of Dominant
3			
4		<u> </u>	Percent of Dominant Species That Are OBL_EACW_or EAC100(A/B)
5		<u> </u>	
6		<u> </u>	Prevalence Index worksheet:
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )			FACW species x 2 =
1		· • · •	FAC species x 3 =
2		<u> </u>	FACU species X 4 =
3		<u> </u>	Column Totals: (A) (B)
4		<u> </u>	
5		<u> </u>	Prevalence Index = B/A =
6.			Hydrophytic Vegetation Indicators:
7.			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5			☐ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1 Phraemites australis	95		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2.	<u>_/0</u>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
6			<b>Tree</b> – 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
0			and greater than or equal to 3.28 ft (1 m) tall.
3			Herb – All herbaceous (non-woody) plants, regardless of
		<u> </u>	size, and woody plants less than 3.28 ft tall.
11		<u> </u>	Woody vines – All woody vines greater than 3.28 ft in
12			height.
	95	= Total Cover	
Woody Vine Stratum (Plot size: <u>30</u> )			
1		<u> </u>	U desets
2		<u> </u>	Vegetation
3		<u> </u>	Present? Yes 🔀 No 🗋
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Depth	 Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR/3/2	85	10yr/5/8	15			<u>SiLo</u> Pro	minent redox
					_	-		
					-	-		
					-	-		
			·		-			
					-	-		
<sup>1</sup> Type: C=C	oncentration, D=Dep	pletion, RN	I=Reduced Matrix, M	S=Masked	d Sand Gra	ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histic E Black H Hydroge Stratifier Deplete Thick D Sandy N Sandy R Sandy F Stripped Dark Su	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfac ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, I f hydrophytic vegeta Layer (if observed)	ce (A11) MLRA 149 ation and w	MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress B)	) ace (S9) (I Mineral (F Matrix (F2 k (F3) rface (F6) Surface (F6) Surface (F8) sions (F8)	LRR R, Mi 1) (LRR K 2) 77) ent, unless	LRA 149B	Coast Prairi 5 cm Mucky Dark Surface Polyvalue B Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl or problematic.	ie Redox (A16) ( <b>LRR K, L, R</b> ) y Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ce (S7) ( <b>LRR K, L, M</b> ) Below Surface (S8) ( <b>LRR K, L</b> ) Surface (S9) ( <b>LRR K, L</b> ) anese Masses (F12) ( <b>LRR K, L, R</b> ) Floodplain Soils (F19) ( <b>MLRA 149B</b> ) dic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) t Material (F21) ow Dark Surface (TF12) lain in Remarks)
Type: Depth (in	ches):		-				Hydric Soil Pres	sent? Yes 🛛 No 🗌
rtemano.								





Project/Site: CHPE Phase 5	City/County: <u>Schenectady</u>	Sampling Date: <u>11/10/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>0-1</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenectady</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.746005</u>	Long: <u>-73.971227</u>	Datum: NAD83
Soil Map Unit Name:	NWI classificat	lion:_pfm
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🔀 No 🔲 (If no, explain in Rer	marks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	ntly disturbed? Are "Normal Circumstances" pre	esent? Yes 🔀 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain any answers	in Remarks.)

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

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

Wetland Hydrology Indicators:         Secondary Indicators (minimum of two requirements)	ired)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)	
High Water Table (A2)	
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 (C	9)
Drift Deposits (B3)	
Algal Mat or Crust (B4) 📃 Recent Iron Reduction in Tilled Soils (C6) 🔲 Geomorphic Position (D2)	
Iron Deposits (B5) 🛛 Thin Muck Surface (C7) 🔲 Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) 🔲 Other (Explain in Remarks) 🛛 🔲 Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes 🔲 No 🗵 Depth (inches): Wetland Hydrology Present? Yes 🗵 No	]
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aenal photos, previous inspections), if available:	
Remarks:	

Sampling Point: <u>0-1</u>

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: <u>1</u> (A)
2		· • • •	Total Number of Dominant
3		<u> </u>	Species Across All Strata: _1 (B)
4		<u> </u>	Percent of Dominant Species
5.			That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6			
7			Prevalence Index worksheet:
/·	·		Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )			FACW species x 2 =
1		· • · •	FAC species x 3 =
2		·	FACU species x 4 =
3.			UPL species x 5 =
A			Column Totals: (A) (B)
+			Prevalence Index = B/A =
5		<u> </u>	
6		<u> </u>	Hydrophytic Vegetation Indicators:
7		<u> </u>	□ 1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	$\square$ 2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5</u> )			
1. Phragmites australis	95	YES FACW	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
2 Equisatum son	20		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	_20		
3			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		·	
5		<u> </u>	Definitions of Vegetation Strata:
6		<u>·                                    </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		<u> </u>	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
		<u> </u>	size, and woody plants less than 3.28 ft tall.
11		<u> </u>	Woody vines – All woody vines greater than 3.28 ft in
12		<u> </u>	height.
	<u>115</u>	= Total Cover	
Woody Vine Stratum (Plot size: 30 )			
1		<u> </u>	
2			Hydrophytic
2			Vegetation Present? Yes 🛛 No 🗍
3	·	<u> </u>	
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Depth	Matrix		Redo	x Feature	s			-
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR/3/2	92	10yr/5/8	8			SiLo	Prominent redox
					_	-		
		·						
						-		
					-	-		
		- <u> </u>						
		·						
					-	-		
		·						
					-	-		
		·						
<u></u>							21	Di - Dava Licia a M. Matri
Hydric Soil	Indicators:	ietion, Rivi	=Reduced Matrix, M	5=masked	a Sand Gr	ains.	Indicators	for Problematic Hydric Soils <sup>3</sup>
	(A1)			w Surface	(S8) (I <b>R</b> I	RR		
	pipedon (A2)		MLRA 149B	)		,	Coast	Prairie Redox (A16) (LRR K, L, R)
Black H	istic (A3)		Thin Dark Surfa	, ace (S9) (I	LRR R, M	LRA 149B)	) 🔲 5 cm N	Aucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky I	Mineral (F	1) ( <b>LRR K</b>	ί, L)	Dark S	Surface (S7) (LRR K, L, M)
	d Layers (A5)			Matrix (F2	2)			alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)		く (F3) いずののの (F6)				erk Surface (S9) (LRR K, L)
	Ark Sunace (A12) Aucky Mineral (S1)			Surface (FO)	- -7)			ont Floodplain Soils (F12) (LRR R, L, R)
Sandy C	Gleyed Matrix (S4)		Redox Depress	sions (F8)	.,			Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)			. ,			🔲 Red P	arent Material (F21)
Stripped	l Matrix (S6)						Very S	hallow Dark Surface (TF12)
Dark Su	Irface (S7) (LRR R, N	MLRA 149	<b>B</b> )				U Other	(Explain in Remarks)
<sup>3</sup> Indicators o	f hydrophytic yogotol	tion and w	otland bydrology mu	et ha proc	ont unlos	e dieturbod	or problemativ	2
Restrictive	l aver (if observed):		edana nyarology mas	si ne hiesi	ent, unies:	suisiurbeu		<i>.</i>
Type <sup>,</sup>								
Denth (in	ches);						Hydric Soil	Present? Ves 🛛 No 🗍
Bomarka:	cnes)							
Remarks:								