

Project/Site: 21268 - CHPE	City/County: Schenectady Sampling Date: 11/5/2021
Applicant/Owner: CHA	State: NY Sampling Point: O-2 UPL
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):Lo	cal relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.2432	Long: <u>-73.8788</u> Datum:
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of yea	r? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly dis	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally probl	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.

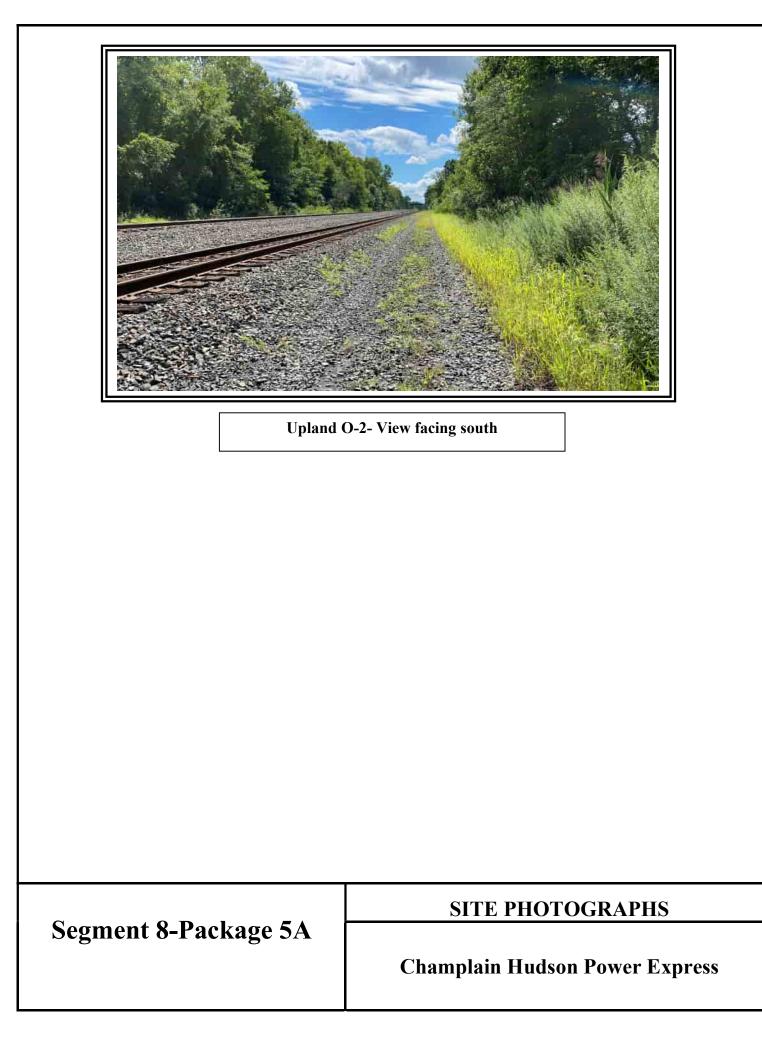
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedure Upland for WL O	s here or in a s	separate report.)	

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

Sampling Point: 0-2 UPL

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus rubra	10	Yes	FACU	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: <u>3</u> (B)
5.				Demont of Deminant Species
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1				FACW species $0   x 2 = 0$
2.				FAC species $0 \times 3 = 0$
3.				FACU species 65 x 4 = 260
4.				UPL species 0 x 5 = 0
E				Column Totals: 65 (A) 260 (B
5 6.				Prevalence Index = B/A = 4.00
				Hydrophytic Vegetation Indicators:
7		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
	15	Vac	FACU	$3 - Prevalence Index is \leq 3.0^{1}$
1. <u>Geranium</u>		Yes		
2. <u>Plantago</u>	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportindata in Remarks or on a separate sheet)
<ol> <li><u>Artemisia vulgaris</u></li> <li>4.</li> </ol>	10	<u>No</u>	FACU	
		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		·		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		-Tatal Oavar		Herb – All herbaceous (non-woody) plants, regardles
Manda Mine Streture (Plat size) 20	55	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				Woody vines – All woody vines greater than 3.28 ft i
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes No x
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

(inches) Color ( 0-6 10yr 6-16 10yr 	5/2 100 3/2	Color (moist)		ype <sup>1</sup> Loc <sup>2</sup>	Texture         Loamy/Clayey         Loamy/Clayey		Remarks	<u></u>
6-16 10yr	3/2							
<sup>1</sup> Type: C=Concentration Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A					Loamy/Clayey			
<sup>1</sup> Type: C=Concentration Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		 						
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		M=Reduced Matrix, M	S=Masked					
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		 						
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		M=Reduced Matrix, M	S=Masked					
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		M=Reduced Matrix, M	S=Masked					
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		M=Reduced Matrix, M	S=Masked	Sand Grain				
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		M=Reduced Matrix, M	S=Masked					
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A		M=Reduced Matrix, M	S=Masked	Sand Grain				
Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A					is. <sup>2</sup> Locatio	n: PL=Pore Li	ining, M=Matri	<b>x</b> .
Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A							matic Hydric	
Black Histic (A3) Hydrogen Sulfide (A		Polyvalue Belov		S8) ( <b>LRR R</b>			(LRR K, L, ML	
Hydrogen Sulfide (A	)	MLRA 149B)					ox (A16) (LRR	,
	0	Thin Dark Surfa				-	or Peat (S3) (I	
	-	High Chroma Sa					Surface (S8) (L	
Depleted Below Da	-	Loamy Mucky M Loamy Gleyed N					e (S9) ( <b>LRR K,</b> Masses (F12) (	-
Thick Dark Surface		Depleted Matrix				-	ain Soils (F12) (	
Sandy Mucky Miner		Redox Dark Sur					6) ( <b>MLRA 144</b>	
Sandy Gleyed Matri		Depleted Dark S	. ,	7)		Parent Materi		, ,
Sandy Redox (S5)	<b>、</b>	Redox Depressi	-	,			k Surface (F22	.)
Stripped Matrix (S6)	)	Marl (F10) (LRF				er (Explain in F		
Dark Surface (S7)								
<sup>3</sup> Indicators of hydrophyti		wetland hydrology mu	st be prese	ent, unless d	isturbed or problema	atic.		
Restrictive Layer (if ob	served):							
Туре:								
Depth (inches):					Hydric Soil Pr	resent?	Yes	No <u>x</u>



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>p.3</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Schenectady</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.739954</u>	Long: <u>-73.967890</u>	Datum: NAD83
Soil Map Unit Name:	NWI classif	ication:_pFM
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🔀 No 🔲 (If no, explain in I	Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	antly disturbed? Are "Normal Circumstances"	present? Yes 🛛 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain any answ	ers in Remarks.)

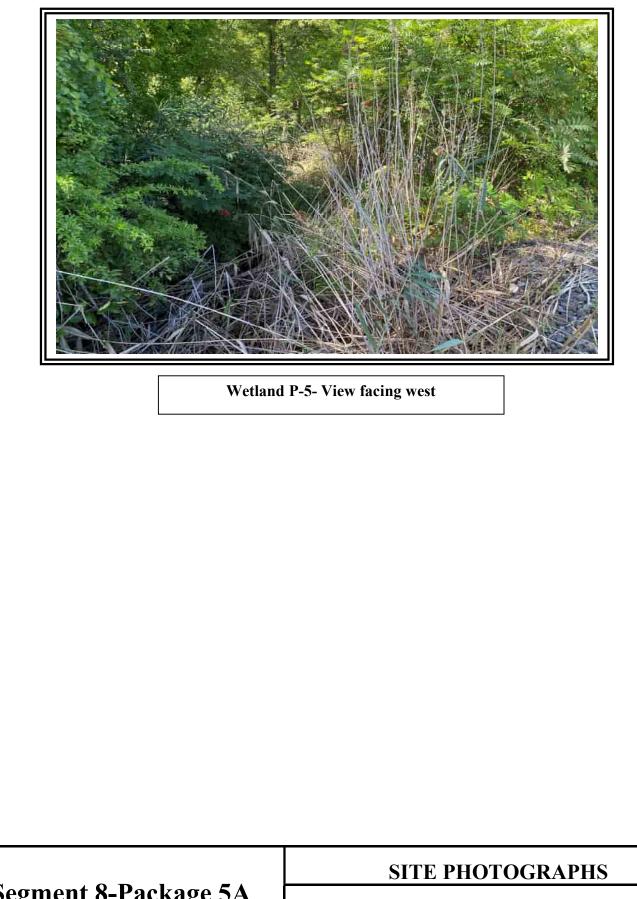
# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No	Is the Sampled Area
Hydric Soil Present?	Yes <u>X</u> No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes <u>X</u> No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Wetland P - 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 X No Depth (inches): 3	
Water Table Present? Yes X No Depth (inches): 4	
Saturation Present? Yes X No Depth (inches): surface	Wetland Hydrology Present? Yes 🔟 No 🗌
(includes capillary fringe)	
(includes capillary fringe)	
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
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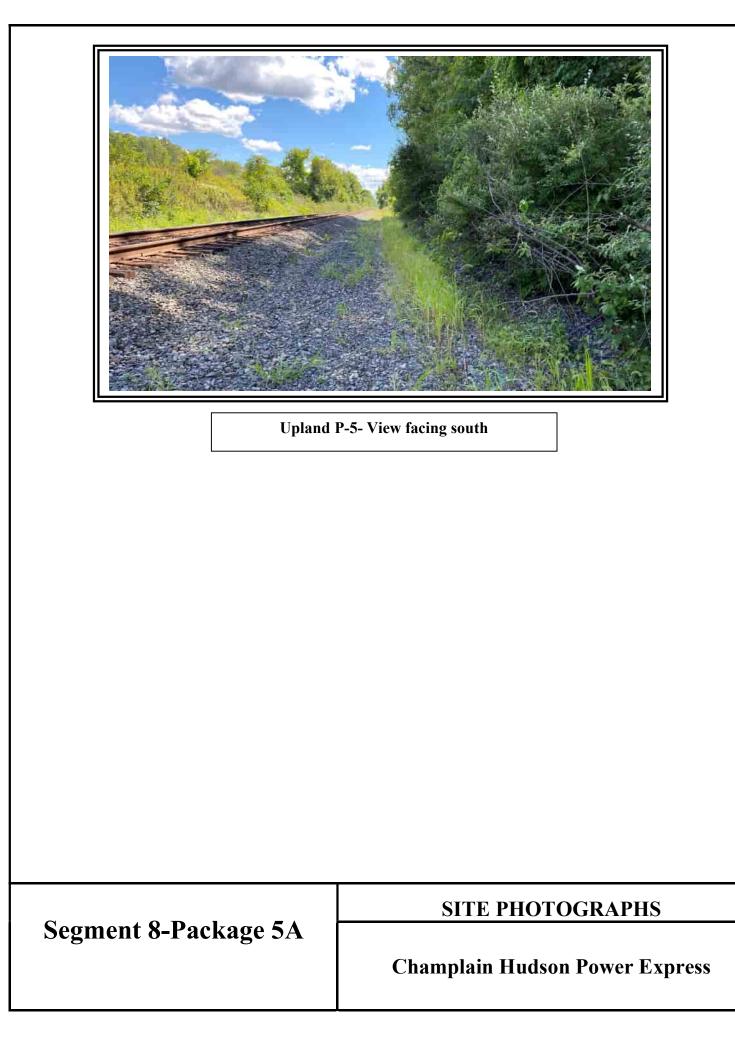
<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
		Number of Dominant Species
1		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	<u> </u>	That Are OBL, FACW, of FAC (A/B)
6	· ·	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 =
4		Column Totals: (A) (B)
		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
	= Total Cover	$\square$ 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot size: <u>5</u> )	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. <u>Phragmites australis</u>		data in Remarks or on a separate sheet)
2		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3	· <b>v</b>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4	:	
5	::	Definitions of Vegetation Strata:
6	<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7	· ·	at breast height (DBH), regardless of height.
8	<u> </u>	Sapling/shrub – Woody plants less than 3 in. DBH
9	<u> </u>	and greater than or equal to 3.28 ft (1 m) tall.
10		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		size, and woody plants less than 5.28 ft tall.
12.		<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
12		neight.
Weedy Vine Stratum (Plateize: 20)		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )		
1		Hydrophytic
2		Vegetation
3	<u></u>	Present? Yes X No
4	· ·	
	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)	

(inches)	Matrix			ox Feature	<u>s</u>	2		
	<u>Color (moist)</u>	%	Color (moist)	%	<u>Type</u>	_Loc <sup>2</sup>	Texture	Remarks
.16	10YR/2/1	85 	<u>10yr/5/6</u>	 	· · · · · · · · · · · · · · · · · · ·	   	SiCILo	Prominent redox
					·			
			/=Reduced Matrix, M					. PL=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy R Sandy R Stripped Dark Sun	en Sulfide (A4) d Layers (A5) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) ( <b>LRR R, I</b>	MLRA 149	MLRA 149E	Ace (S9) ( Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F sions (F8)	1) (LRR K 2) ) <del>-</del> 7)	, L)	5 cm M Dark S Polyva Thin D Iron-M Piedm Mesic Red P Very S Other	Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R Surface (S7) (LRR K, L, M) alue Below Surface (S8) (LRR K, L) Park Surface (S9) (LRR K, L) langanese Masses (F12) (LRR K, L, ont Floodplain Soils (F19) (MLRA 14 Spodic (TA6) (MLRA 144A, 145, 149 arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks)
Туре:	Layer (if observed)		-				Hydric Soil	Present? Yes 🗵 No 🗌



Segment 8-Package 5A

**Champlain Hudson Power Express** 



Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	_ Sampling Date: <u>11/11/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>_0-6</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u></u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.73863</u>	Long: <u>-73.96717</u>	Datum: <u>NAD83</u>
Soil Map Unit Name:	NWI classit	fication: PFM
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🔀 No 🔲 (If no, explain in	Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> _ significa	antly disturbed? Are "Normal Circumstances"	' present? Yes 🔀 No 🔲
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain any answ	vers in Remarks.)

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

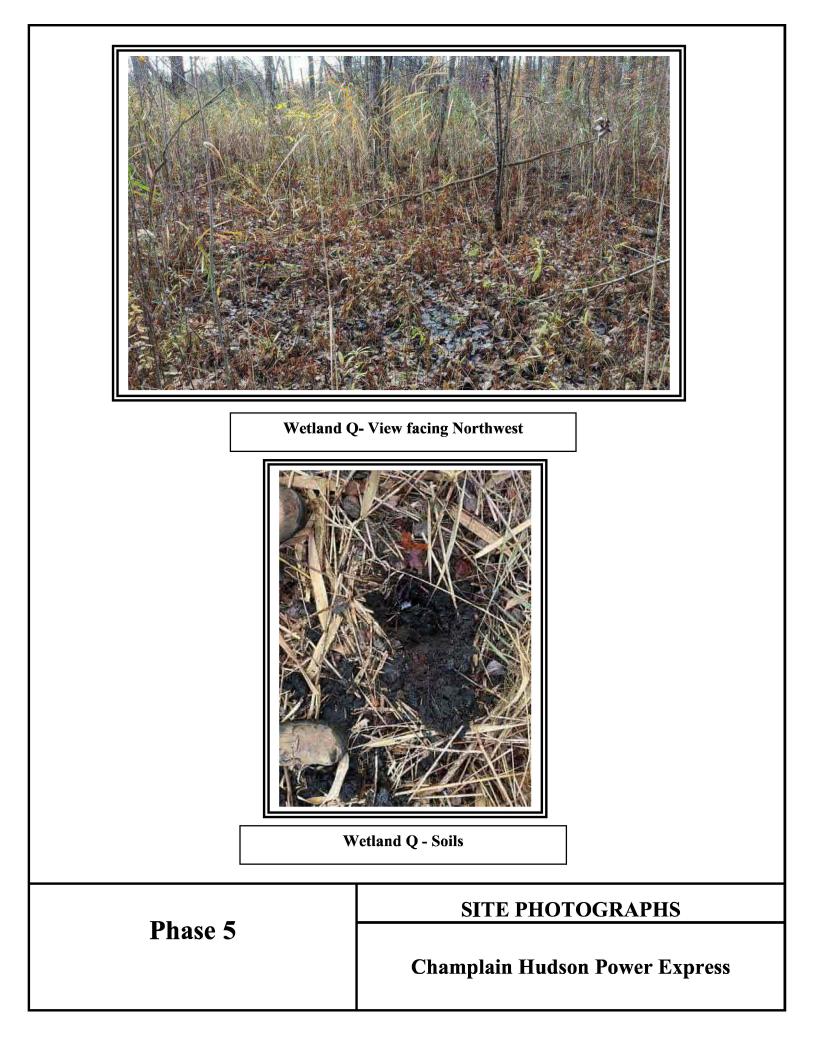
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu Wetland Q - South of West Old State Stre		

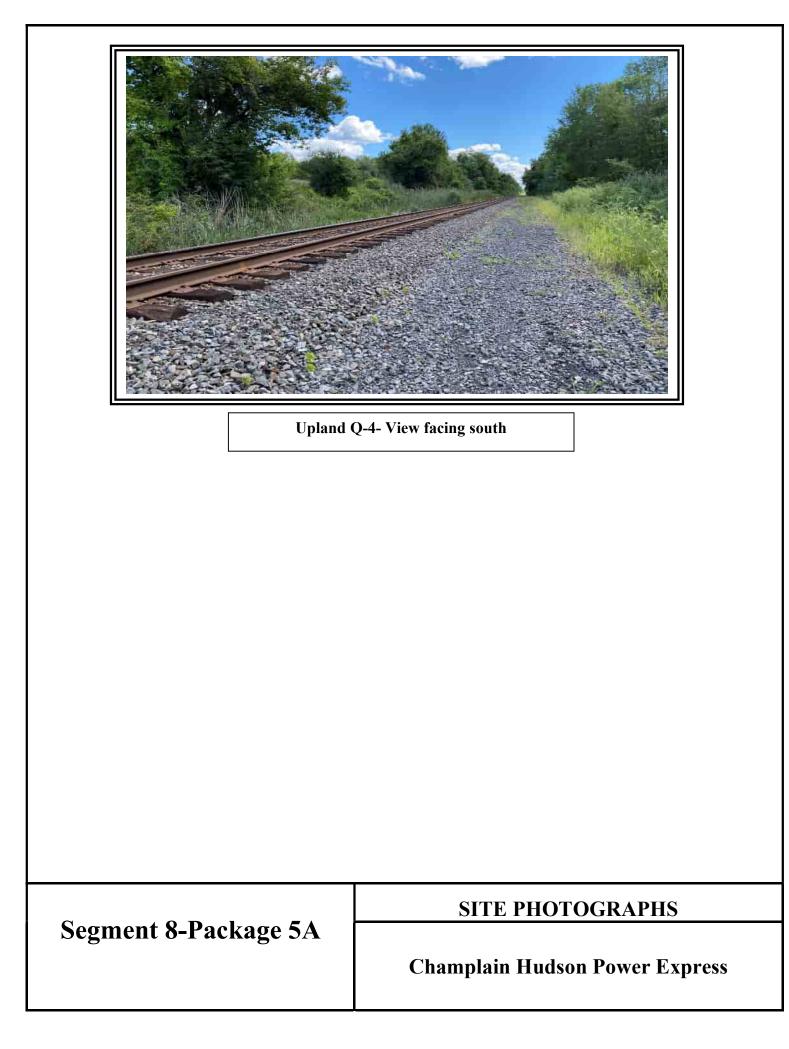
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	_ 🔲 Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	3) 🔟 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) 🛛 🔲 Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>X</u> No <u>D</u> Depth (inches): 3	
	nd Hydrology Present? Yes 🔟 No 🗌
(includes capillary fringe)	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	
Remarks:	

Sampling Point: <u>Q-6</u>

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1. <u>Populus tremuloides</u>			Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2			$\operatorname{MatAre OBL, FACW, of FAC.} \underline{2} $ (A)
3			Total Number of Dominant Species Across All Strata: _3 (B)
4			Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> (A/B)
5			
6			Prevalence Index worksheet:
7			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>	UPL species x 5 = Column Totals: (A) (B)
4		<u> </u>	
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
/·		= Total Cover	2 - Dominance Test is >50%
			$\Box$ 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot size: <u>5</u> ) 1. <i>Phragmites australis</i>	90	YES FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Equisetum spp.			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.
			Definitions of Vegetation Strata:
5			-
6			<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7			
8			<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			Herb – All herbaceous (non-woody) plants, regardless of
10		<u> </u>	size, and woody plants less than 3.28 ft tall.
11		· ·	Woody vines – All woody vines greater than 3.28 ft in
12		<u> </u>	height.
	<u>110</u>	= Total Cover	
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )			
1		<u>·                                    </u>	
2			Hydrophytic Vegetation
3			Present? Yes X No
4			
		= Total Cover	
Remarks: (Include photo numbers here or on a separate			
	,		

Depth	Matrix		Red	ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-12	_10YR/2/1	95	7.5yr/4/6	5	- <u>-</u>		SiCILo	Prominent redox
					· <u>-</u>			
				·	· <u>·</u>			
					- <u>-</u>			
					- <u>-</u> -			
					-			
					- -			
Hydric Soil Histoso Histic E Black H Hydrog Stratifie Deplete Thick D Sandy I Sandy I Sandy I Sandy I Dark Stripper Dark Stripper Type: rog	pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) ed Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic vegeta Layer (if observed)	e (A11) MLRA 149	Polyvalue Belo     MLRA 149E     Thin Dark Surf     Loamy Mucky     Loamy Gleyed     Depleted Matr     Redox Dark S     Depleted Dark     Redox Depres  B)	w Surface ace (S9) ( Mineral (F Matrix (F2 x (F3) urface (F6 Surface ( sions (F8)	• (S8) (LRI LRR R, M 1) (LRR K 2) ) =7)	R R, LRA 1498 (, L)	Indicators	<u>h: PL=Pore Lining, M=Matrix.</u> <u>for Problematic Hydric Soils<sup>3</sup>:</u> Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Burface (S7) (LRR K, L, M) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) langanese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149E Spodic (TA6) (MLRA 144A, 145, 149B Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) c.





Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	_ Sampling Date: <u>11/11/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>R-7</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>42.73388</u>	Long: <u>-73.96457</u>	Datum: NAD83
Soil Map Unit Name:	NWI classifi	cation:_prM
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🔀 No 🔲 (If no, explain in F	Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	antly disturbed? Are "Normal Circumstances"	present? Yes 🛛 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain any answe	ers in Remarks.)

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

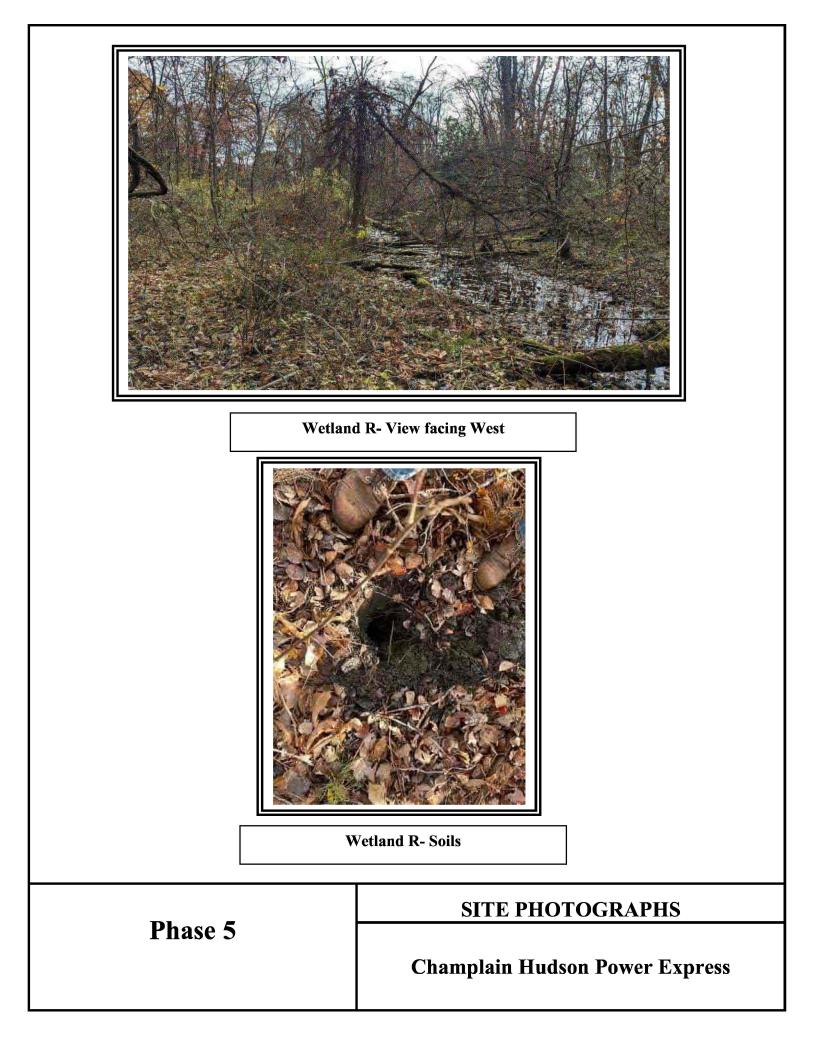
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Wetland R - South of West Old State Stree		

Primary Indicators (minimum of one is required; check all that apply)       Image: Surface Soil Cracks (B6)         Surface Water (A1)       Image: Water-Stained Leaves (B9)       Image: Drainage Patterns (B10)         High Water Table (A2)       Image: Aquatic Fauna (B13)       Image: Moss Trim Lines (B16)         Saturation (A3)       Image: Marks (B1)       Image: Dry-Season Water Table (C2)         Water Marks (B1)       Image: Hydrogen Sulfide Odor (C1)       Image: Crayfish Burrows (C8)         Sediment Deposits (B2)       Image: Oxidized Rhizospheres on Living Roots (C3)       Image: Sutration Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Image: Prime of Reduced Iron (C4)       Image: Sutration Call
Image: Migh Water Table (A2)       Image: Aquatic Fauna (B13)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (A2)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)       Image: Moss Trim Lines (B16)         Image: Moss Trim Lines (B16)       Image: Moss
Image: Saturation (A3)       Image: Marl Deposits (B15)       Image: Dry-Season Water Table (C2)         Image: Water Marks (B1)       Image: Hydrogen Sulfide Odor (C1)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water Table (C2)       Image: Dry-Season Water Table (C2)         Image: Sediment Deposits (B2)       Image: Dry-Season Water
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)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)
Algal Mat or Crust (B4) 📃 Recent Iron Reduction in Tilled Soils (C6) 🔲 Geomorphic Position (D2)
Iron Deposits (B5) 🛛 Inin 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 <u>Ves</u> No <u>Depth</u> (inches): 10
Saturation Present? Yes X No Depth (inches): 7 Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring weil, achar photos, previous inspections), il available.
Remarks:

Sampling Point: <u>R-7</u>

Tree Stratum (Plot size: <u>30</u> )	Absolute	Dominant Indicator Species? Status	Dominance Test worksheet:
			Number of Dominant Species
1			That Are OBL, FACW, or FAC: <u>3</u> (A)
2			Total Number of Dominant
3			Species Across All Strata: _3(B)
4		<u> </u>	Percent of Dominant Species
5		<u> </u>	That Are OBL, FACW, or FAC: <u>66</u> (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. <u>Cornus sericea</u>	15		FAC species x 3 =
			FACU species x 4 =
2			UPL species x 5 =
3			Column Totals: (A) (B)
4			
5		<u> </u>	Prevalence Index = B/A =
6		<u> </u>	Hydrophytic Vegetation Indicators:
7		<u> </u>	X 1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	☑ 2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5</u> )			☐ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. <u>Phragmites australis</u>	80	YES FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Equisetum spp.			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 at breast height (DBH), regardless of height.
7			
8		·	<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		<u> </u>	Howh All hashessons (non-monda) alarts according of
10		<u> </u>	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		<u>·                                    </u>	
12		<u> </u>	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
	100	= Total Cover	
Woody Vine Stratum (Plot size: 30 )			
1			
			Hydrophytic
2			Vegetation Present? Yes <u>X</u> No
3		<u> </u>	
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

	cription: (Describe	to the dep				or confirm	the absence	of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Redo Color (moist)	<u>x Features</u> %	<u>s</u> Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
			•		_туре			
0-12	10YR/3/1	<b>9</b> 5	10yr/4/6	5			SiCILo	Prominent redox
					-	-		
		·						
					-	-		
		·						
		·						
					-	-		
						_		
		·						
						-		
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	I Sand Gr	ains.	<sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
Hydric Soil			· · · · ·					for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belov	w Surface	(S8) (LRI	R,		Muck (A10) ( <b>LRR K, L, MLRA 149B)</b>
	pipedon (A2)		MLRA 149B	,				Prairie Redox (A16) (LRR K, L, R)
	istic (A3)							Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	en Sulfide (A4) d Layers (A5)		Loamy Mucky M			., <b>∟</b> )		Surface (S7) ( <b>LRR K, L, M</b> ) alue Below Surface (S8) ( <b>LRR K, L</b> )
	d Below Dark Surface	e (A11)	Depleted Matrix		)			Park Surface (S9) (LRR K, L)
	ark Surface (A12)	<b>、</b>	Redox Dark Su					langanese Masses (F12) ( <b>LRR K, L, R</b> )
	/lucky Mineral (S1)		Depleted Dark	•	7)			ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	Sleyed Matrix (S4)		Redox Depress	sions (F8)				Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Redox (S5)							arent Material (F21)
	l Matrix (S6) rface (S7) ( <b>LRR R, N</b>		B)					Shallow Dark Surface (TF12) (Explain in Remarks)
			<b>(</b>					
<sup>3</sup> Indicators o	f hydrophytic vegetat	tion and w	etland hydrology mus	st be prese	ent, unles	s disturbed	or problematio	C.
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes 🔀 No 🗌
Remarks:								





Upland R-3- View facing north

Segment 8-Package 5A

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

U.S. Army Corps of Engineers	0
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: Altamont/ Albany Sampling Date: 7/25/22
Applicant/Owner: TDI	State: NY Sampling Point: wet-P5-B-3
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): <u>concave</u> Slope %: <u>0</u>
Subregion (LRR or MLRA): LRR R Lat: 42-43-47.36N	Long: <u>73-57-44.33W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Raynham very fine sandy loam (Ra)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.

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

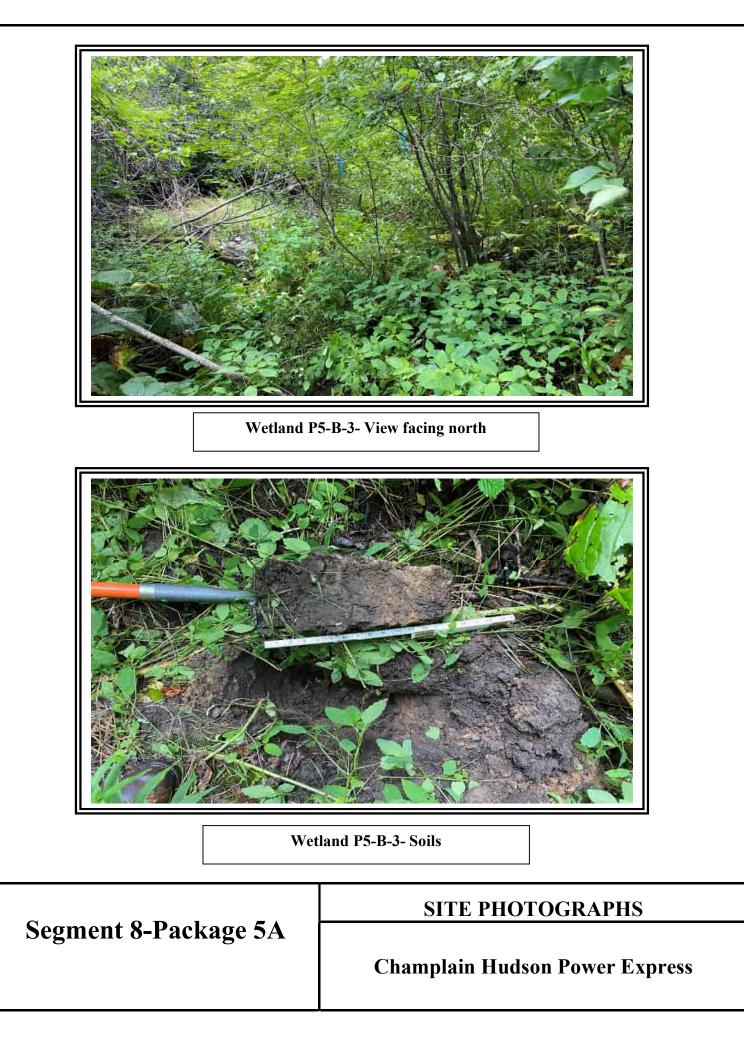
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	) Other (Explain in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8	8)	X FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes	No x Depth (inches):		
Saturation Present? Yes x	No Depth (inches): 9 Wetland	Hydrology Present? Yes X No	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if a	vailable:	
Remarks:			
Stream P5-S2 is adjacent to this wetland.			

Sampling Point: Wet-P5-B-3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	5	Yes	FAC	Number of Dominant Species
2.				Number of Dominant Species         That Are OBL, FACW, or FAC:       5         (A)
3				Total Number of Dominant
4		·		Species Across All Strata:6(B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species25 x 1 =25
1. Cornus racemosa	5	Yes	FAC	FACW species 85 x 2 = 170
2. Rhamnus cathartica	8	Yes	FAC	FAC species18x 3 =54
3.				FACU species 5 x 4 = 20
4.				UPL species 0 x 5 = 0
-				Column Totals: 133 (A) 269 (B)
				Prevalence Index = $B/A = 2.02$
7		Tatal Oaura		Hydrophytic Vegetation Indicators:
	13	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Impatiens capensis	80	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Symplocarpus foetidus	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago gigantea	5	No	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
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.				Herb – All herbaceous (non-woody) plants, regardless
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1. Parthenocissus quinquefolia	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2				
				Hydrophytic
3				Vegetation
4				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

# SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument ti	ne indica	tor or co	onfirm the absence of	f indicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	2.5Y 3/1	90	10YR 3/3	10	C	M	Loamy/Clayey	Distinct redox concentrations
4-16	10YR 3/1	48	10YR 5/4	30	C		Sandy	Distinct redox concentrations
			10YR 3/6	20	C	M		Prominent redox concentrations
			10YR 3/6	2	<u> </u>	PL		Prominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM		/S=Masl	ked Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Pr	airie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B		. , .			icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa	, ace (S9)	) (LRR R	MLRA 1		e Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S		-			k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	Δ11)	Loamy Mucky					nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Loamy Gleyed			( <b>(</b> , <b>L</b> )		It Floodplain Soils (F19) (MLRA 149B)
	podic (A17)		Depleted Matri		,			ent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		X Redox Dark Su		6)			allow Dark Surface (F22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Remarks)
· · ·	ileyed Matrix (S4)		Redox Depress	sions (F8	8)			
·	edox (S5)		Marl (F10) (LR					rs of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)		d hydrology must be present, disturbed or problematic.
Restrictive I	_ayer (if observed):							
Туре:	non	е						
Depth (ir	nches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								
1								



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

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

Project/Site: CHPE C	City/County: Altamont/ Albany Sampling Date: 7/25/22
Applicant/Owner: TDI	State: NY Sampling Point: Wet P5-A-2
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local rel	ief (concave, convex, none): <u>concave</u> Slope %: <u>0</u>
Subregion (LRR or MLRA):         LRR R         Lat:         42-43-44.06N	Long: <u>73-57-42.60W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Shaker fine sandy loam (Sh)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	ed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problematic	c? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.

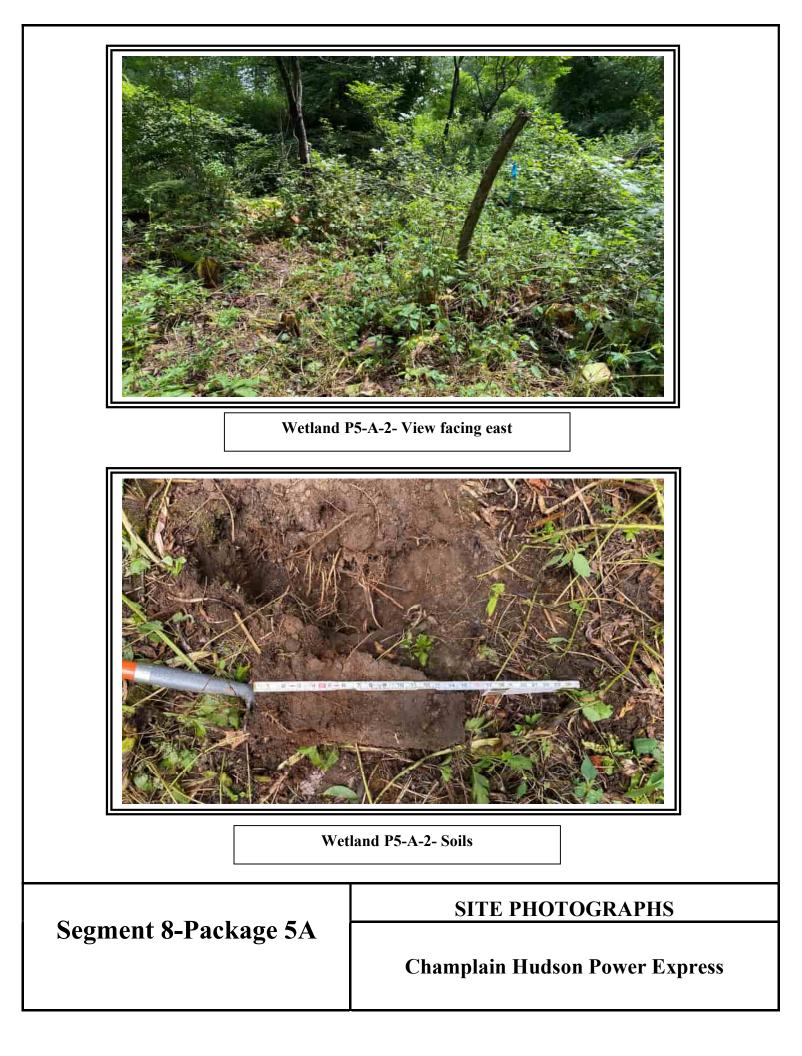
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure	es here or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	Moss Trim Lines (B16)				
Saturation (A3)	turation (A3) Marl Deposits (B15)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6	) X Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes		etland Hydrology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	s), if available:			
Remarks:					
Stream P5-S1 is within this wetland.					

Sampling Point: Wet P5-A-2

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:3 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 60.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species25 x 1 =25
1. Cornus racemosa	8	Yes	FAC	FACW species 90 x 2 = 180
2. Alnus incana	15	Yes	FACW	FAC species 23 x 3 = 69
3.				FACU species 20 x 4 = 80
4.				UPL species 0 x 5 = 0
5				Column Totals: 158 (A) 354 (B)
6				Prevalence Index = B/A =224
7				Hydrophytic Vegetation Indicators:
	23	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
1. Impatiens capensis	75	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$
2. Eutrochium maculatum	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Urtica gracilis	15	No	FAC	data in Remarks or on a separate sheet)
				Desklams die Uberlaan he die Mansterdie n <sup>1</sup> (Ermlatie)
4. Symplocarpus foetidus	20	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Alliaria petiolata</u>	2	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	117	=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. Vitis aestivalis	10	Yes	FACU	height.
2. Parthenocissus quinquefolia	8	Yes	FACU	
3.				Hydrophytic Ventetier
4.				Vegetation Present? Yes X No
	18	=Total Cover		
Descentes (la chada alta da				
Remarks: (Include photo numbers here or on a separation of the sep	rate sheet.)			

Depth	Matrix Color (moist) 10YR 3/2 7.5YR 3/2 10YR 3/2	%           100           80           73	Redo Color (moist) 5YR 4/6 10YR 3/6 10YR 3/6	x Featur %       	rype <sup>1</sup> C C C	<u>Loc<sup>2</sup></u> <u>M</u> <u>M</u>	Texture Sandy Sandy Sandy	Remarks Prominent redox concentrations Prominent redox concentrations
0-2	10YR 3/2 7.5YR 3/2	<u>100</u> 80	5YR 4/6 10YR 3/6	20 25	<u>с</u>		Sandy Sandy	Prominent redox concentrations
2-4	7.5YR 3/2	80	10YR 3/6	25	С		Sandy	
			10YR 3/6	25	С		<u> </u>	
	10YR 3/2					<u> </u>	Sandy	Prominent redox concentrations
		·	10YR 3/6	2	С			
						<u>PL</u>		Prominent redox concentrations
						·		
		·				·		
		·						
<sup>1</sup> Type: C=Conce	entration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil Indi		<u>.</u>	· · ·					or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1	)		Dark Surface (	S7)			2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epiped	don (A2)		Polyvalue Belo	ow Surfac	ce (S8) (	LRR R,	Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Histic	(A3)		MLRA 149B	5)			5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen Su	ulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	<b>49B</b> ) Polyvalu	ue Below Surface (S8) (LRR K, L)
Stratified Lay	yers (A5)		High Chroma	Sands (S	11) ( <b>LR</b>	R K, L)	Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )
Depleted Be	low Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	<b>R K, L</b> )	Iron-Mai	nganese Masses (F12) ( <b>LRR K, L, R</b> )
	Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149E</b>
Mesic Spodi			Depleted Matri					rent Material (F21) <b>(outside MLRA 1</b> 4
•	44A, 145, 149B)		Redox Dark S	``	'			allow Dark Surface (F22)
	y Mineral (S1)		Depleted Dark		. ,		Other (E	Explain in Remarks)
	ed Matrix (S4)		Redox Depres		3)		2	
X Sandy Redo			Marl (F10) (LR	-				ors of hydrophytic vegetation and
Stripped Mat	trix (S6)		Red Parent Ma	aterial (F	21) <b>(ML</b> F	RA 145)		nd hydrology must be present, s disturbed or problematic.
-	er (if observed):	_						· · · · · · · · · · · · · · · · · · ·
Туре:	non	e						
Depth (inche	es):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



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

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

Project/Site: CHPE	City/County: Altamont/ Albany Sampling Date: 7/25/22
Applicant/Owner: TDI	State: NY Sampling Point: UPIP5-A-2&B-3
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local	relief (concave, convex, none): none Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 42-43-44.06N	Long: <u>73-57-42.60W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Shaker fine sandy loam (Sh)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

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

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

Sampling Point: Upl P5-A-2 & B-3

<u> Tree Stratum</u> (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Fraxinus americana	85	Yes	FACU	Number of Dominant Species		
				Number of Dominant Species           That Are OBL, FACW, or FAC:         1         (A)		
·				Total Number of Dominant		
				Species Across All Strata: 5 (B)		
				Percent of Dominant Species		
)				That Are OBL, FACW, or FAC:(A/		
				Prevalence Index worksheet:		
	85	=Total Cover		Total % Cover of:Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' )	1			OBL species x 1 =		
. Cornus racemosa	20	Yes	FAC	FACW species 0 x 2 = 0		
. Lonicera tatarica	55	Yes	FACU	FAC species 20 x 3 = 60		
. Rosa multiflora	5	No	FACU	FACU species x 4 = 976		
				UPL species 0 x 5 = 0		
				Column Totals: 264 (A) 1036 (		
				Prevalence Index = B/A =3.92		
				Hydrophytic Vegetation Indicators:		
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
lerb Stratum (Plot size: 5')				2 - Dominance Test is >50%		
Podophyllum peltatum	5	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
. Alliaria petiolata	2	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportindata in Remarks or on a separate sheet)		
Circaea canadensis	2	No	FACU			
Lonicera tatarica	35	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus		
j				be present, unless disturbed or problematic.		
		·		Definitions of Vegetation Strata:		
		·		Tree – Woody plants 3 in. (7.6 cm) or more in		
		- <u> </u>		diameter at breast height (DBH), regardless of heigh		
				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, regardle		
	44	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
<u>Noody Vine Stratum</u> (Plot size: 30')	1			Woody vines – All woody vines greater than 3.28 ft		
Parthenocissus quinquefolia	10	<u>No</u>	FACU	height.		
2. Celastrus orbiculatus	45	Yes	FACU	Hydrophytic		
3		·		Vegetation		
1		·		Present?         Yes         No _ X		
	55	=Total Cover				

		to the dep				tor or co	onfirm the absence o	of indicator	rs.)	
Depth	Matrix			x Featur		. 2			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	'KS
0-3	10YR 2/2	100					Sandy			
3-16	10YR 4/2	92	10YR 3/1	8		<u>M</u>	Sandy	Fain	t redox cor	ncentrations
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion RM	=Reduced Matrix	 //S=Mas	ked Sand	Grains	<sup>2</sup> Location: I	PI =Pore Lir	ning M=Ma	atrix
Hydric Soil				11103			Indicators		-	
Black Hi Hydroge Stratified Depleted Thick Da Mesic S (MLR	(A1) pipedon (A2) stic (A3) In Sulfide (A4) Layers (A5) Below Dark Surface ark Surface (A12) podic (A17) <b>A 144A, 145, 149B)</b> Mucky Mineral (S1)		Dark Surface ( Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark	ow Surfa Face (S9 Sands (S Mineral Matrix ( Matrix ( ix (F3) urface (F	) ( <b>LRR R</b> 511) ( <b>LRF</b> (F1) ( <b>LRF</b> F2) F6)	, MLRA 1 R K, L)	Light Coast F Coast F 5 cm M Polyvali Thin Da Iron-Ma Piedmo Red Pa Very Sh	Prairie Redo ucky Peat o ue Below So ark Surface inganese M int Floodplai	x (A16) ( <b>Li</b> or Peat (S3 urface (S8) (S9) ( <b>LRR</b> asses (F12 in Soils (F1 al (F21) <b>(ou</b> Surface (F	2) (LRR K, L, R) 19) (MLRA 149B) utside MLRA 145)
Sandy G	Bleyed Matrix (S4) Redox (S5) Matrix (S6)		Redox Depres Marl (F10) (LR Red Parent Ma	sions (F R K, L)	8)	RA 145)	<sup>3</sup> Indicat wetla	ors of hydro nd hydrolog	ophytic veg jy must be	present,
Destrictive	l avar (if a baam od)						unles I	s disturbed	or problem	iatic.
Туре:	Layer (if observed): nor nches):						Hydric Soil Prese	ent?	Yes	NoX



Upland P5-A-2 & P5-B-3- View facing north



Upland P5-A-2 & P5-B-3- Soils

Segment 8-Package 5A

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Schenectady</u>	_ Sampling Date: <u>11/11/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>S-2</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>42.72835</u>	Long: <u>-73.96154</u>	Datum: <u>NAD83</u>
Soil Map Unit Name:	NWI classifi	ication:_pFM
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🔀 No 🔲 (If no, explain in I	Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	antly disturbed? Are "Normal Circumstances"	present? Yes 🛛 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	y problematic? (If needed, explain any answ	ers in Remarks.)

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

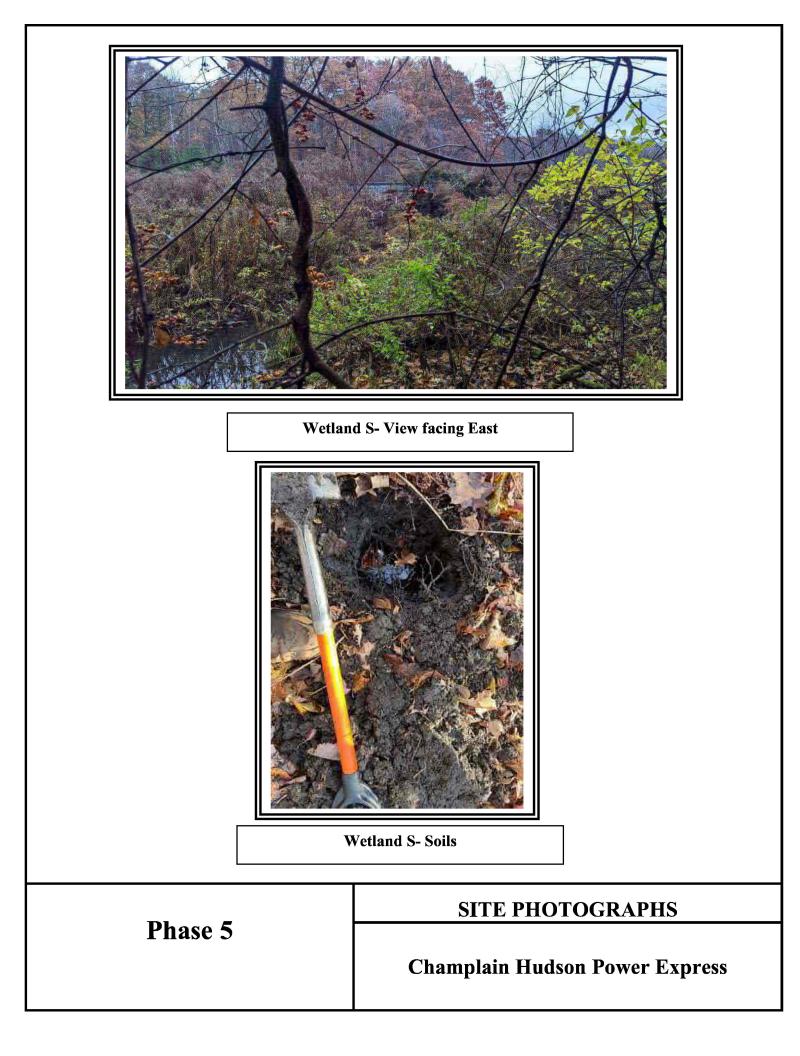
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Wetland S - North of Western Turnpike	res here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 🛛 🔲 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 4	
Water Table Present? Yes 🛛 No 🗖 Depth (inches): 2	
Saturation Present? Yes No Depth (inches): surface	Wetland Hydrology Present? Yes 🔟 No 🗌
Saturation Present? Yes No Depth (inches): surface	
Saturation Present? Yes No Depth (inches): surface	
Saturation Present? Yes No Depth (inches): surface	
Saturation Present? Yes No Depth (inches): surface	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No Depth (inches): surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	

Sampling Point: <u>S-2</u>

Trace Other trace (Dist size) 20	Absolute	Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30</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		<u> </u>	That Are OBL, FACW, or FAC: <u>100</u> (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 =
			FACU species x 4 =
2			UPL species x 5 =
3		<u> </u>	Column Totals: (A) (B)
4		<u> </u>	
5		<u> </u>	Prevalence Index = B/A =
6		<u> </u>	Hydrophytic Vegetation Indicators:
7		<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5</u> )			
1. <u>Phragmites australis</u>	85	YES FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4			Definitions of Vegetation Strata:
5			
6			<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7	. <u> </u>	<u> </u>	
8		·	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		<u> </u>	
10		<u> </u>	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		<u> </u>	
12			<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
		= Total Cover	
Woody Vine Stratum (Plot size: 30 )			
,			
1		<u> </u>	Hydrophytic
2		<u> </u>	Vegetation Present? Yes X No
3	·	·	Present? Yes 🔼 No 🗋
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

		to the dep	oth needed to docur	m <b>ent the</b> i ox Feature		or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)		<u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
<u>0-12</u>	<u>10YR/4/2</u>	_ <u>85</u>	10yr/5/6	<u>15</u>	·	·	<u>CILO</u>	Prominent redox
					·	- - - - - -		
Hydric Soil Histosol Histic E Black H Hydroge Stratifie Deplete Thick D Sandy N Sandy C Sandy F Stripped Dark Su	Indicators: I (A1) pipedon (A2) iistic (A3) en Sulfide (A4) d Layers (A5) id Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I	e (A11) MLRA 1491		w Surface ) ace (S9) (I Mineral (F Matrix (F2 (F3) rface (F6) Surface (F6) Surface (F8)	(S8) (LRI _RR R, M 1) (LRR K 2) 	R R, LRA 149B; (, L)	Indicators  2 cm N Coast 5 cm N Dark S Polyva Thin D Iron-M Piedm Nesic Red P Very S Other	a: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> : Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) langanese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks)
	Layer (if observed)		etland hydrology mus	st be pres	ent, unles	s disturbed		c. Present? Yes <u>X</u> No <u></u>



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

Project/Site: CHPE	City/County: Guilderland/Albany Sampling Date: 8/25/22
Applicant/Owner: <u>TDI</u>	State: NY Sampling Point: P5-Q Wet
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	_Local relief (concave, convex, none): concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42 43 3	N Long: <u>-73 57 37W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification: PEM2
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignification	tly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturall	problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No           Yes         X         No           Yes         X         No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:near flag P5-Q-5
Remarks: (Explain alternative procedures Common reed marsh.	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 a	apply) Surface Soil Crac	Surface Soil Cracks (B6)			
Surface Water (A1) Water-Staine	ed Leaves (B9) Drainage Patterns	(B10)			
High Water Table (A2)	na (B13) Moss Trim Lines (	B16)			
Saturation (A3) Marl Deposit	ts (B15) Dry-Season Wate	r Table (C2)			
Water Marks (B1) Hydrogen St	ulfide Odor (C1) Crayfish Burrows	(C8)			
Sediment Deposits (B2) x Oxidized Rh	izospheres on Living Roots (C3) Saturation Visible	on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of	Reduced Iron (C4) Stunted or Stresse	ed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron	Reduction in Tilled Soils (C6) x Geomorphic Posit	ion (D2)			
Iron Deposits (B5) Thin Muck S	Surface (C7) Shallow Aquitard	(D3)			
Inundation Visible on Aerial Imagery (B7) Other (Expla	in in Remarks) Microtopographic	Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test	(D5)			
Field Observations:					
Surface Water Present? Yes No x Dep	th (inches):				
Water Table Present? Yes No x Dep	oth (inches):				
		<b>N N N</b>			
Saturation Present? Yes No x Dep	oth (inches): Wetland Hydrology Present?	Yes X No			
Saturation Present? Yes <u>No x</u> Dep (includes capillary fringe)	th (inches): Wetland Hydrology Present?	Yes <u>X</u> No			
		Yes <u>X</u> No			
(includes capillary fringe)		Yes <u>X</u> No			
(includes capillary fringe)		Yes <u>X</u> No			
(includes capillary fringe)		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria		Yes <u>X</u> No			

Sampling Point: P5-Q Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 = 20
1. Cornus amomum	20	Yes	FACW	FACW species 100 x 2 = 200
2. <u>Rhamnus cathartica</u>	10	Yes	FAC	FAC species 10 x 3 = 30
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: <u>130</u> (A) <u>250</u> (B)
6				Prevalence Index = B/A =1.92
7				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. <i>Phragmites australis</i>	60	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. <u>Onoclea sensibilis</u>	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. <u>Carex stricta</u>	10	No	OBL	
4. <u>Carex lurida</u>	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	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.		. <u></u>		Vegetation
4		=Total Cover		Present? Yes <u>X</u> No
Remarks: (Include photo numbers here or on a sepa	arate sneet.)			

# SOIL

Profile Desc	cription: (Describe t	the de	pth needed to docu	ument t	he indica	tor or c	onfirm the absence of	indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 2/1	80	10YR 4/6	20	<u> </u>	pl	Loamy/Clayey	Prominent redox con	centrations
0-6 6-18	10YR 2/1 10YR 5/1	<u>80</u> 70 	10YR 4/6 10YR 4/6	_20 _30 		pl 	Loamy/Clayey	Prominent redox con Prominent redox con	
	oncentration, D=Depl	etion, RN	Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		-=Pore Lining, M=Matrix	
Black Hi Hydroge Stratified Thick Da Mesic Sj (MLR Sandy M Sandy R Sandy R Stripped	(A1) bipedon (A2)	e (A11)	Dark Surface ( Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matrii X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	w Surfa ) ace (S9 Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (F <b>R K, L</b> )	) ( <b>LRR R</b> 611) ( <b>LRI</b> (F1) ( <b>LRI</b> F2) 66) 6 (F7) 8)	, MLRA <sup>,</sup> R K, L) R K, L)	2 cm Muc Coast Pra 5 cm Muc Polyvalue Thin Dark Iron-Mang Piedmont Red Pare Very Sha Other (Ex <sup>3</sup> Indicator wetland	r Problematic Hydric S ck (A10) (LRR K, L, ML airie Redox (A16) (LRR cky Peat or Peat (S3) (L e Below Surface (S8) (L c Surface (S9) (LRR K, ganese Masses (F12) (I t Floodplain Soils (F19) ent Material (F21) (outsi llow Dark Surface (F22) cplain in Remarks) rs of hydrophytic vegeta d hydrology must be pre disturbed or problematio	RA 149B) K, L, R) .RR K, L, R) RR K, L) L) LRR K, L, R) (MLRA 149B) ide MLRA 145) ) tion and esent,
Type: Depth (ir							Hydric Soil Presen	t? Yes <u>X</u>	No
Remarks:									

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

Project/Site: CHPE	City/County: Guilderland/Albany Sam	pling Date: <u>8/25/22</u>
Applicant/Owner: TDI	State: NY Sa	mpling Point: P5-Q Upl
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope	Local relief (concave, convex, none): convex	Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 42 43 34N	Long:73 57 38W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes <u>x</u> No (If no, explai	n in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly	y disturbed? Are "Normal Circumstances" present?	Yes x No
Are Vegetation, Soil, or Hydrologynaturally pre-	oblematic? (If needed, explain any answers in Rema	arks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-Q-5
Remarks: (Explain alternative procedure Railroad embankment.	s here or in a separate repo	rt.)

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two requi	red)				
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	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 Roo	ots (C3) Saturation Visible on Aerial Imagery (C9	<del>)</del> )				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	) Other (Explain in Remarks)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B	8)	FAC-Neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present? Yes N	lo_X_				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available:					
Remarks:							

Sampling Point: P5-Q Upl

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3 4				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species         0         x 1 =         0
1				FACW species $0   x 2 = 0$
2.				FAC species 50 x 3 = 150
3.				FACU species 10 x 4 = 40
4.				UPL species 15 x 5 = 75
5.				Column Totals: 75 (A) 265 (B)
6.				Prevalence Index = B/A = 3.53
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Setaria pumila	50	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Artemisia vulgaris	15	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Erigeron canadensis	10	No	FACU	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
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				Herb – All herbaceous (non-woody) plants, regardless
	75	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			•

Profile Desc	cription: (Describe t	o the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence	of indicate	ors.)	
Depth	Matrix		Redo	ox Featu	res					
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
———		·			·					
<u> </u>		<u> </u>			·					
					·					
					·					
					<u> </u>					
		<u> </u>			·					
<sup>1</sup> Type: C=Ce	oncentration, D=Depl	etion, RM	=Reduced Matrix, I	MS=Mas	sked Sand	Grains.	<sup>2</sup> Location:	PL=Pore L	ining, M=Ma	atrix.
Hydric Soil		,	,						matic Hydr	
Histosol			Dark Surface	(S7)						MLRA 149B)
	oipedon (A2)		Polyvalue Belo		ace (S8) (I	LRR R.				RR K, L, R)
	stic (A3)		MLRA 149E			,				b) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Sur	,	)) (LRR R	MLRA 1		-	-	) (LRR K, L)
	l Layers (A5)		High Chroma						e (S9) ( <b>LRR</b>	
	d Below Dark Surface	(A11)	Loamy Mucky	-						2) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Loamy Gleyed			, _/		-		19) ( <b>MLRA 149B</b> )
	podic (A17)		Depleted Matr		(• _)					utside MLRA 145)
	A 144A, 145, 149B)		Redox Dark S		F6)				k Surface (F	
-	lucky Mineral (S1)		Depleted Dark		-			Explain in	-	22)
	Bleyed Matrix (S4)		Redox Depres						(cinano)	
	ledox (S5)		Marl (F10) (LF	•	,		<sup>3</sup> Indica	tors of hyd	rophytic veg	etation and
	Matrix (S6)		Red Parent M			<b>2A</b> 145)		-	gy must be	
				ateriai (i	21) (11161	(A 140)		•	d or problen	•
Postrictivo	Layer (if observed):									
Type:	Layer (il observed).									
Depth (ii	nches):						Hydric Soil Pres	ent?	Yes	NoX
Remarks:										
Soils consist	of railroad ballast.									

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

Project/Site: CHPE City	y/County: Guilderland/Albany Sampling Date: 7/27/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-D We
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local relief	f (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 29"N	Long:73 57 41"W Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 25 to 45 percent slopes	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling	ng point locations, transects, important features, etc.

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

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	_x_Water-Stained Leaves (B9)	Drainage Patterns (B10)			
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)	x Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	x Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)			
x Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches): Wetlan	d Hydrology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:			
Remarks:					

Sampling Point: P5-D Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	5	Yes	FAC	Number of Dominant Species
2. Fraxinus pennsylvanica	5	Yes	FACW	That Are OBL, FACW, or FAC:5(A)
3.				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 83.3% (A/I
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15'	)			OBL species 0 x 1 = 0
1. Cornus amomum	50	Yes	FACW	FACW species 110 x 2 = 220
2. Ilex verticillata	10	No	FACW	FAC species 30 x 3 = 90
3. Prunus serotina	5	No	FACU	FACU species 15 x 4 = 60
4.	_			UPL species $0 \times 5 = 0$
5.				Column Totals: 155 (A) 370 (I
6.				Prevalence Index = B/A = 2.39
7.				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Impatiens capensis	30	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Toxicodendron radicans	25	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Cornus amomum		No	FACW	data in Remarks or on a separate sheet)
4. Carex tribuloides	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
				_
o 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
10				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.		- <u> </u>		
		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30'	\ <u></u>			
· · · · · · · · · · · · · · · · · · ·	.)	Vaa	FACU	Woody vines – All woody vines greater than 3.28 ft
Celastrus orbiculatus	10	Yes	FACU	height.
		<u> </u>		Hydrophytic
3		·		Vegetation
4.		<u> </u>		Present?         Yes X         No
	10	=Total Cover		

9-16       10YR 4/2       60       10YR 5/6       20       c       m       Loamy/Clayey       Prominent redox concentrations         10YR 2/1       20       c       m       Faint redox concentrations         10YR 2/1       20       c       c       Faint redox concentrations         10Y	0-5         10 YR 2/1         100         Mucky Sand           5-9         10 YR 3/1         95         10 YR 5/6         5         c         m         Loamy/Clayey         Prominent redox concentrations           9-16         10 YR 4/2         60         10 YR 5/6         20         c         m         Loamy/Clayey         Prominent redox concentrations           9-16         10 YR 4/2         60         10 YR 5/6         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c         m         Loamy/Clayey         Prominent redox concentrations           10 YR 2/1         20         c <t< th=""><th>Depth</th><th>Matrix</th><th></th><th>Redo</th><th>x Featur</th><th></th><th></th><th></th><th></th></t<>	Depth	Matrix		Redo	x Featur				
5-9         10YR 3/1         95         10YR 5/6         5         c         m         Loamy/Clayey         Prominent redox concentration           9-16         10YR 4/2         60         10YR 5/6         20         c         m         Loamy/Clayey         Prominent redox concentration	5-9         10YR 3/1         95         10YR 5/6         5         c         m         Loamy/Clayey         Prominent redox concentrations           9-16         10YR 4/2         60         10YR 5/6         20         c         m         Loamy/Clayey         Prominent redox concentrations           9-16         10YR 4/2         60         10YR 5/6         20         c         m         Loamy/Clayey         Prominent redox concentrations           10YR 2/1         20         c         m         Faint redox concentrations         Faint redox concentrations           10YR 2/1         20         c         m         Faint redox concentrations         Faint redox concentrations           10YR 2/1         20         c         m         Faint redox concentrations         Faint redox concentrations           10YR 2/1         20         c         m         Faint redox concentrations         Faint redox concentrations           10YR 2/1         20         c         m         Faint redox concentrations         Faint redox concentrations           10YR 2/1         20         c         m         Coast Paint redox concentrations         Faint redox concentrations           10YR 2/1         20         c         m         Coast Paint redox concentrations	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
9-16       10YR 4/2       60       10YR 5/6       20       c       m       Loamy/Clayey       Prominent redox concentrations         10YR 2/1       20       c       m       Faint redox concentrations         10YR 2/1       0       c       coarticity       Faint redox concentrations         10YR 2/1       0       c       coarticity       faint redox concentrations         10YR 2/1       0       c       coarticity       faint redox concentrations         10YR 2/1       0       faint redox concentrations       faint redox concentrations	9-16       10YR 4/2       60       10YR 5/6       20       c       m       Loamy/Clayey       Prominent redox concentrations         10YR 2/1       20       c       m       Faint redox concentrations         10YR 2/1       20       Cast Strister       Faint redox concentrations         11       20       Cast Strister       Faint redox concentrations         11       C	0-5	10YR 2/1	100					Mucky Sand	
Image: Space of the system	IOYR 2/1       20       c       m       Faint redox concentrations         Finit redox concentrations       Faint redox concentrations       Faint redox concentrations         Image: Specie Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.       Cocastion: PL=Pore Lining, M=Matrix.         Histosol (A1)       Dark Surface (S7)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       Cocastion: PL=Pore Lining, M=Matrix.         Histosol (A1)       Dark Surface (S7)       Cocastion: PlaiPore Lining, M=Matrix.         Histosol (A1)       Dark Surface (S9) (LRR R, ICR R, IC	5-9	10YR 3/1	95	10YR 5/6	5	C		Loamy/Clayey	Prominent redox concentrations
Image:	Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location:       PL=Pore Lining, M=Matrix.         Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location:       PL=Pore Lining, M=Matrix.         Type:       Dark Surface (S7)       Indicators for Problematic Hydric Soils <sup>3</sup> :       Indicators for Problematic Hydric Soils <sup>3</sup> .         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histosol (A2)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Thin Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Mesic Spodic (A17)       Z Depleted Matrix (F3)         Medox Dark Surface (S5)       Redox Dark Surface (F7)         Sandy Gleyed Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Type:       Depletion (inches):         Depletion (inches):       Hydric Soil Present?         Yes       X	9-16	10YR 4/2	60	10YR 5/6	20	с		Loamy/Clayey	Prominent redox concentrations
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)				10YR 2/1	20	C			Faint redox concentrations
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)		·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Y       Depleted Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X         Ward Gleyed Matrix (F3)       Red Parent Material (F21) (outside MLRA 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)         Type:       Depleted Inches):         Depth (inches):       Marl (F10) (LRR K, L)									
Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 1498         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         X       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Praine Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x Depleted Below Dark Surface (A12)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       X Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:	Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L, R)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       X       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydric Soil	Indicators:						Indicators for	r Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA (F2))         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR (F2))         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:	Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, L)         x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 1         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Histosol	l (A1)		Dark Surface (	S7)			2 cm Muc	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 1         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Histic E	pipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (l	LRR R,	Coast Pra	airie Redox (A16) ( <b>LRR K, L, R</b> )
Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 1         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Black H	istic (A3)		MLRA 149B	)			5 cm Muc	cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, I         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	x       Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 1         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydroge	en Sulfide (A4)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1	I <b>49B</b> ) Polyvalue	e Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 1         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR 1         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 149         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Stratifie	d Layers (A5)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Thin Dark	Surface (S9) ( <b>LRR K, L</b> )
Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLR         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:          Depth (inches):        Hydric Soil Present?       Yes X       No	Mesic Spodic (A17)       X       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 1         (MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	x Deplete	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Iron-Mang	ganese Masses (F12) ( <b>LRR K, L, R</b> )
(MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes_X_No_	(MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Thick D	ark Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont	Floodplain Soils (F19) ( <b>MLRA 149B</b>
(MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	(MLRA 144A, 145, 149B)       X       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:									
X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	X       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:						-6)			
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Restrictive Layer (if observed):       Type:         Depth (inches):       Hydric Soil Present?	Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Restrictive Layer (if observed):       unless disturbed or problematic.         Type:				Depleted Dark	Surface	, (F7)			
Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes X No	Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes X No									·
Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:						- /		<sup>3</sup> Indicator	s of hvdrophytic vegetation and
Restrictive Layer (if observed):	Restrictive Layer (if observed):						21) <b>(MLF</b>	RA 145)	wetland	hydrology must be present,
Depth (inches):          Hydric Soil Present?         Yes X         No	Depth (inches):          Yes X         No	Restrictive	Layer (if observed):						uniess	disturbed of problematic.
		• •								
	Remarks:	Depth (i	nches):						Hydric Soil Present	t? Yes <u>X</u> No
Remarks:		Remarks:								

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

Project/Site: CHPE C	ity/County: Guilderland/Albany Sampling Date: 7/27/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-D Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local reli	ef (concave, convex, none): <u>concave</u> Slope %: <u>15</u>
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 29"N	Long: _73 57 41"W Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 25 to 45 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	d? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sample	ing point locations, transects, important features, etc.

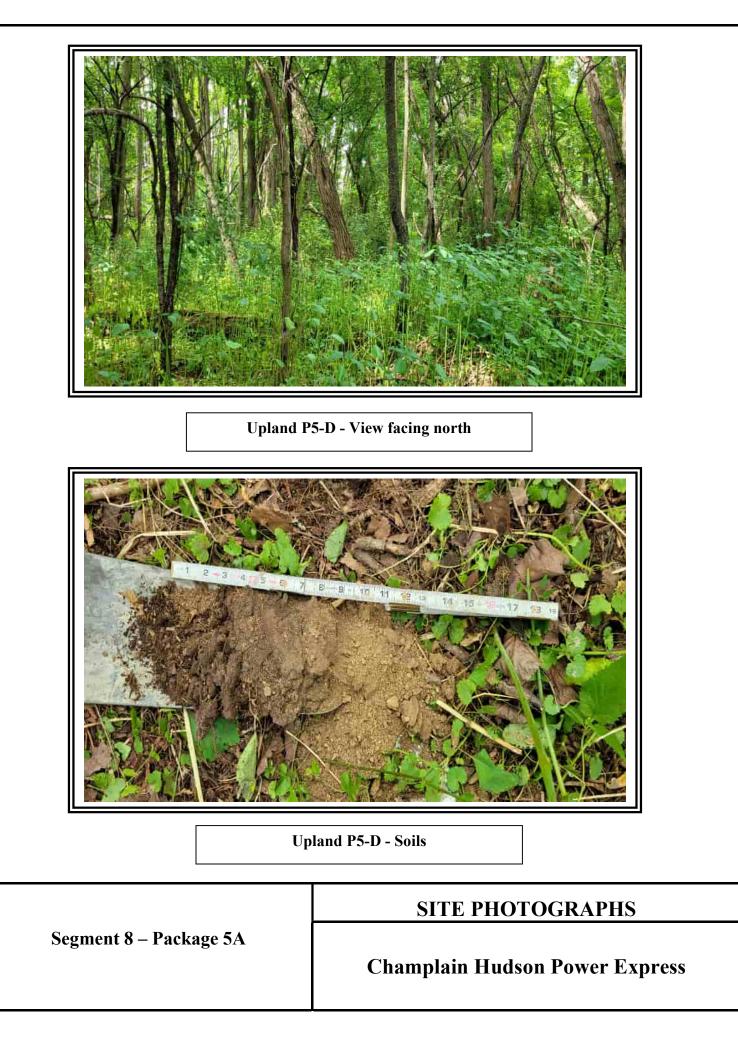
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         X         No         X           Yes         No         X         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative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

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

Sampling Point: P5-D Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Robinia pseudoacacia	50	Yes	FACU	
2. Prunus serotina	15	No	FACU	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:2(A)
3. Acer negundo	10	No	FAC	Total Number of Dominant
4. Rhamnus cathartica	10	No	FAC	Species Across All Strata: 6 (B)
5.	_			Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 33.3% (A/I
7.				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species 0 x 1 = 0
1. Rhamnus cathartica	10	Yes	FAC	FACW species 75 x 2 = 150
2. Prunus serotina	5	Yes	FACU	FAC species 32 x 3 = 96
3. Lonicera morrowii	5	Yes	FACU	FACU species 102 x 4 = 408
4.				UPL species 2 x 5 = 10
5.				Column Totals: 211 (A) 664 (I
6.				Prevalence Index = B/A = 3.15
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Impatiens capensis	75	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Alliaria petiolata	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Ageratina altissima	5	No	FACU	data in Remarks or on a separate sheet)
4. Campanula rapunculoides	2	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Rosa multiflora	2	No	FACU	<sup>1</sup> Indiactors of budrie coil and wattend budreless musi
6. Solidago rugosa	2	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of heigh
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, regardle:
	96	=Total Cover		of size, and woody plants less than 3.28 ft tall.
	)	•		
Woody Vine Stratum (Plot size: 30'	• *	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft height.
	10			
1. <u>Celastrus orbiculatus</u>	10			
Celastrus orbiculatus	10			Hydrophytic
1. <u>Celastrus orbiculatus</u>	10	·		Hydrophytic Vegetation Present? Yes <u>No X</u>

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ument t	he indica	tor or co	onfirm the absence of indicators.)	
Depth	Matrix			x Featu				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Rem	arks
0-8	10YR 3/2	95	10YR 5/4	5	c	m	Loamy/Clayey Distinct redox of	concentrations
8-14	10YR 5/4	100					Loamy/Clayey	
					·			
					·			
					·			
$\frac{1}{1}$ Type: C=Cc	oncentration, D=Depl	etion RM	=Reduced Matrix	 IS=Mas	ked Sand	Grains	<sup>2</sup> Location: PL=Pore Lining, M=N	latrix
Hydric Soil I	•		noudood matrix, n				Indicators for Problematic Hyd	
Histosol			Dark Surface (	S7)			2 cm Muck (A10) ( <b>LRR K, L</b>	
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ice (S8) (I	LRR R,	Coast Prairie Redox (A16) (I	_RR K, L, R)
Black His	stic (A3)		MLRA 149B	,			5 cm Mucky Peat or Peat (S	
	n Sulfide (A4)		Thin Dark Surf					
	Layers (A5)		High Chroma S	-			Thin Dark Surface (S9) (LRF	
	Below Dark Surface	e (A11)	Loamy Mucky			<b>Κ, L</b> )	Iron-Manganese Masses (F1	
	rk Surface (A12) oodic (A17)		Loamy Gleyed Depleted Matri		(FZ)		Piedmont Floodplain Soils (F Red Parent Material (F21) (o	
	A 144A, 145, 149B)		X Redox Dark Su		-6)		Very Shallow Dark Surface (	
	ucky Mineral (S1)		Depleted Dark	`	'		Other (Explain in Remarks)	/
· · ·	leyed Matrix (S4)		Redox Depress		. ,			
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			<sup>3</sup> Indicators of hydrophytic ve	getation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland hydrology must be	
							unless disturbed or proble	matic.
	ayer (if observed):							
Type: -	roc							
Depth (ir	nches):	14					Hydric Soil Present? Yes X	<u>No</u>
Remarks:								



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

Project/Site: CHPE City/C	County: Guilderland/Albany	Sampling Date: 7/27/22
Applicant/Owner: TDI	State: NY	Sampling Point: P5-E Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): depression Local relief (	concave, convex, none): <u>concave</u>	Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42 43 22"N	Long:73 57 42"W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification:	PFO1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, ex	xplain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" presen	nt? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in F	Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: near flag P5-E-1
Remarks: (Explain alternative procedures Red maple hardwood swamp.	here or in a separate report.)	

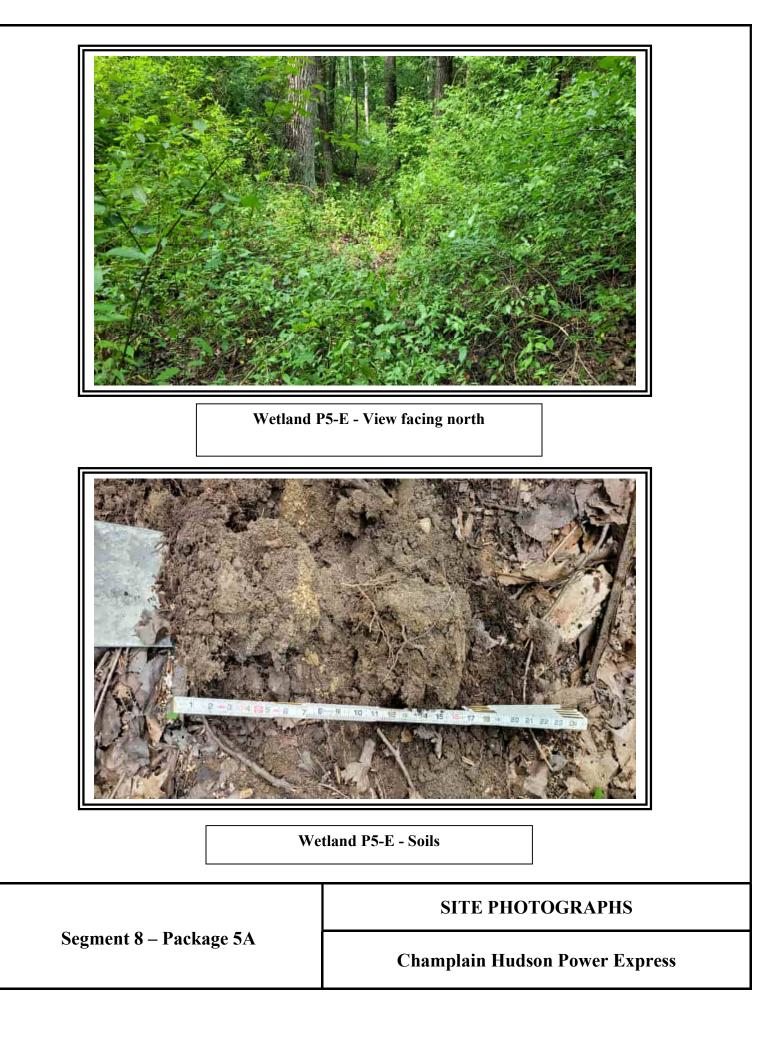
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
Surface Water (A1)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
x Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots	(C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6	6) 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 (B	3)	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	etland Hydrology Present? Yes X No	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspectior	ns), if available:
Remarks:		

Sampling Point: P5-E Wet

Species?           Yes           Yes           Yes           Total Cover           Yes           No           No           Total Cover           Yes           No           No	Status         FAC         FACW         FACW	Dominance Test worksheet:Number of Dominant SpeciesThat Are OBL, FACW, or FAC:5 (A)Total Number of DominantSpecies Across All Strata:6 (B)Percent of Dominant SpeciesThat Are OBL, FACW, or FAC:83.3% (A/E)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0 x 1 = 0FACW species110 x 2 = 220FAC species90 x 3 = 270FAC species5 x 4 = 20UPL species0 x 5 = 0Column Totals:205 (A)5 Prevalence Index = B/A = 2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX 2 - Dominance Test is >50%X 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
=Total Cover Yes No No Total Cover =Total Cover Yes No No No	FACW FACW FACW FACW FACW FACW FACW	That Are OBL, FACW, or FAC:5(A)Total Number of Dominant Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC:83.3%(A/E)Prevalence Index worksheet: $3.3\%$ (A/E)Total % Cover of:Multiply by:(A/E)OBL species0x 1 =0FACW species110x 2 =220FAC species90x 3 =270FACU species5x 4 =20UPL species0x 5 =0Column Totals:205(A)510Prevalence Index = B/A =2.491Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%XX3 - Prevalence Index is <3.01
Yes No No Total Cover	FACW FAC FACW FACW FACW	Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC:83.3%(A/EPrevalence Index worksheet: $100 \times 12 = 0$ Prevalence Index worksheet: $100 \times 12 = 220$ OBL species0 $x 1 = 0$ FACW species110 $x 2 = 220$ FAC species90 $x 3 = 270$ FACU species $5 \times 4 = 20$ UPL species0 $x 5 = 0$ Column Totals:205(A)Derevalence Index = B/A = $2.49$ Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
Yes No No Total Cover	FACW FAC FACW FACW FACW	Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC:83.3%(A/EPrevalence Index worksheet: $100 \times 12 = 0$ Prevalence Index worksheet: $100 \times 12 = 220$ OBL species0 $x 1 = 0$ FACW species110 $x 2 = 220$ FAC species90 $x 3 = 270$ FACU species $5 \times 4 = 20$ UPL species0 $x 5 = 0$ Column Totals:205(A)Derevalence Index = B/A = $2.49$ Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
Yes No No Total Cover	FACW FAC FACW FACW FACW	That Are OBL, FACW, or FAC:83.3%(A/EPrevalence Index worksheet:Total % Cover of:Multiply by:OBL species0 $x 1 = 0$ FACW species110 $x 2 = 220$ FAC species90 $x 3 = 270$ FACU species5 $x 4 = 20$ UPL species0 $x 5 = 0$ Column Totals:205(A)510(BPrevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is <3.01
Yes No No Total Cover	FACW FAC FACW FACW FACW	That Are OBL, FACW, or FAC:83.3%(A/EPrevalence Index worksheet:Total % Cover of:Multiply by:OBL species0 $x 1 = 0$ FACW species110 $x 2 = 220$ FAC species90 $x 3 = 270$ FACU species5 $x 4 = 20$ UPL species0 $x 5 = 0$ Column Totals:205(A)510(BPrevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is <3.01
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Yes No No Total Cover	FACW FAC FACW FACW FACW	OBL species0 $x 1 =$ 0FACW species110 $x 2 =$ 220FAC species90 $x 3 =$ 270FAC species5 $x 4 =$ 20UPL species0 $x 5 =$ 0Column Totals:205(A)510Prevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is <3.01
No No No =Total Cover Yes No No	FACW FAC FACW FACW FACW	FACW species110 $x 2 =$ 220FAC species90 $x 3 =$ 270FACU species5 $x 4 =$ 20UPL species0 $x 5 =$ 0Column Totals:205(A)510Prevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation $\underline{X}$ 2 - Dominance Test is >50% $\underline{X}$ 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
No No No =Total Cover Yes No No	FACW FAC FACW FACW FACW	FAC species90 $x \ 3 =$ 270FACU species5 $x \ 4 =$ 20UPL species0 $x \ 5 =$ 0Column Totals:205(A)510Prevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is <3.01
No No =Total Cover Yes No No	FACW FACW FACW FACW	FACU species5 $x 4 =$ 20UPL species0 $x 5 =$ 0Column Totals:205(A)510Prevalence Index $= B/A =$ 2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
No =Total Cover Yes No No	FACW FACW FACW	UPL species0 $x 5 =$ 0Column Totals:205(A)510(B)Prevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidate data in Remarks or on a separate sheet)
=Total Cover Yes No No	FACW FACW FACW	Column Totals:205(A)510(B)Prevalence Index = B/A =2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation $X$ 2 - Dominance Test is >50% $X$ 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
Yes No No	FACW FACW	Prevalence Index = $B/A =$ 2.49Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationX2 - Dominance Test is >50%X3 - Prevalence Index is <3.01
Yes No No	FACW FACW	Hydrophytic Vegetation Indicators:         1 - Rapid Test for Hydrophytic Vegetation         X       2 - Dominance Test is >50%         X       3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
Yes No No	FACW FACW	1 - Rapid Test for Hydrophytic Vegetation         X       2 - Dominance Test is >50%         X       3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide support data in Remarks or on a separate sheet)
Yes No No	FACW FACW	
No No	FACW FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide support data in Remarks or on a separate sheet)
No No	FACW FACW	4 - Morphological Adaptations <sup>1</sup> (Provide support data in Remarks or on a separate sheet)
No	FACW	data in Remarks or on a separate sheet)
No	FAC	· Desklans stielle des bestielle met stielle met stien 1 (Exected)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		<ul> <li>Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh</li> </ul>
		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
=Total Cover		<ul> <li>Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.</li> </ul>
Yes	FAC	<b>Woody vines</b> – All woody vines greater than 3.28 ft height.
		Hydrophytic
		<ul> <li>Vegetation</li> <li>Present? Yes X No</li> </ul>
-Total Cavar		
	=Total Cover Yes Yes Total Cover	Yes FAC Yes FACU

# SOIL

Profile Desc	cription: (Describe	to the de	pth needed to docu	ıment t	he indica	tor or co	onfirm the absence of	f indicators.)		
Depth	Matrix			<pre>&lt; Featur</pre>						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks	i
0-6	10YR 3/1	80	7.5YR 4/4	20	C	PL/M	Loamy/Clayey	Prominent re	dox cor	centrations
<u>6-12</u>	10YR 3/1	90	10YR 6/6	<u>    10                                </u>			Loamy/Clayey	Prominent re	dox cor	
							·			
1							2			
Hydric Soil	oncentration, D=Depl	etion, Ri	/I=Reduced Matrix, IV	IS=Mas	ked Sand	Grains.		L=Pore Lining, M		
Black Hi Hydroge Stratified Depleted Thick Da Mesic S (MLR Sandy M Sandy R Sandy R	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) podic (A17) <b>XA 144A, 145, 149B)</b> Mucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) I Matrix (S6)	e (A11)	Dark Surface (S Polyvalue Belor MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky N Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark x Redox Depress Marl (F10) (LRI Red Parent Ma	w Surfa ) ace (S9 Gands (S Mineral Matrix ( k (F3) Irface (F Surface sions (F <b>R K, L</b> )	) ( <b>LRR R</b> 511) ( <b>LRI</b> (F1) ( <b>LRI</b> (F2) 56) 56) 56) 58)	, MLRA <sup>2</sup> R K, L) R K, L)	Legislandia Coast Pr Coast Pr 5 cm Mu Polyvalue Thin Dar Iron-Man Piedmon Red Pare Very Sha Other (E: <sup>3</sup> Indicato wetlan	ck (A10) ( <b>LRR K</b> airie Redox (A16 cky Peat or Peat e Below Surface k Surface (S9) (I ganese Masses it Floodplain Soil ent Material (F21 allow Dark Surfac xplain in Remark rs of hydrophytic d hydrology mus disturbed or pro	6) (LRR t (S3) (L (S8) (L LRR K, (F12) ( ls (F19) l) (outs cce (F22 cs) c vegeta st be pre	K, L, R) LRR K, L, R) .RR K, L) L) LRR K, L, R) (MLRA 149B) ide MLRA 145) ) ation and esent,
Restrictive	Layer (if observed):									
Depth (ii	nches):						Hydric Soil Presen	nt? Yes	<u>X</u>	No
Remarks:										



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

Project/Site: CHPE (	City/County: Guilderland/Albany San	npling Date: 7/27/22
Applicant/Owner: TDI	State: NY Sate: NY	ampling Point: <u>P5-E Upl</u>
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope Local re	elief (concave, convex, none): <u>convex</u>	Slope %: 5
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 22"N	Long:73 57 42"W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, expla	in in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	ed? Are "Normal Circumstances" present?	Yes x No
Are Vegetation, Soil, or Hydrologynaturally problemation	ic? (If needed, explain any answers in Rem	narks.)

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

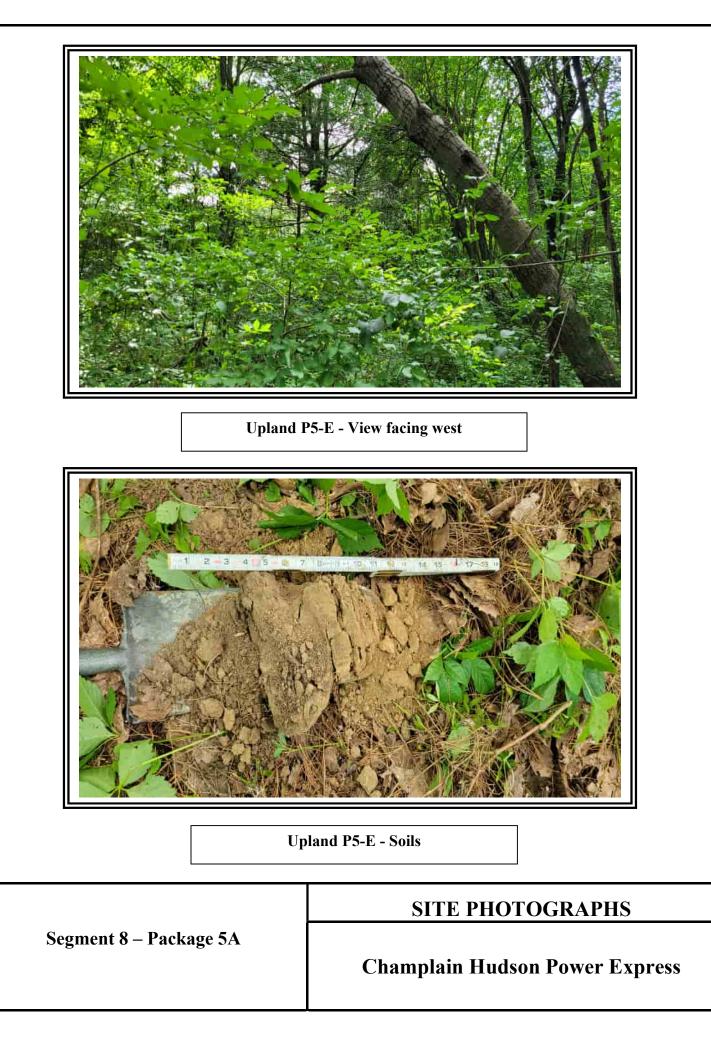
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes	No X No X No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-E-1
Remarks: (Explain alternative procedure Deciduous forest.	s here or in a sep	parate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
Surface Water (A1)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Root	s (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (	C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial 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	Wetland Hydrology Present? Yes No _X	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspect	ions), if available:
Remarks:		

Sampling Point: P5-E Upl

<u>Free Stratum</u> (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
. Rhamnus cathartica	20	Yes	FAC	Number of Dominant Species			
2. Quercus rubra	20	Yes	FACU	That Are OBL, FACW, or FAC:5(A)			
. Populus tremuloides	10	Yes	FACU	Total Number of Dominant			
. Prunus serotina	10	Yes	FACU	Species Across All Strata: 14 (B)			
Acer rubrum	10	Yes	FAC	Deveent of Deminent Chaosica			
). Pinus strobus	10	Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 35.7% (A/E			
				Prevalence Index worksheet:			
	80	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15'	)	-		OBL species 0 x 1 = 0			
. Rhamnus cathartica	30	Yes	FAC	FACW species 10 $x 2 = 20$			
. Lonicera tatarica	20	Yes	FACU	FAC species 80 x 3 = 240			
. Fraxinus pennsylvanica	10	No	FACW	FACU species 150 x 4 = 600			
				UPL species 0 x 5 = 0			
i				Column Totals: 240 (A) 860 (I			
		<u> </u>		Prevalence Index = B/A = 3.58			
				Hydrophytic Vegetation Indicators:			
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%			
. Parthenocissus quinquefolia	40	Yes	FACU	$3 - Prevalence Index is \leq 3.0^{1}$			
Toxicodendron radicans	. <u>15</u>	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide support			
. Ageratina altissima	. <u> </u>	Yes	FACU	data in Remarks or on a separate sheet)			
. Circaea canadensis	. <u>15</u>	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Rosa multiflora	. <u>10</u> 5	No	FACU				
)			1700	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
3.				<b>Tree</b> – 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	. <u> </u>	<u> </u>		and greater than or equal to 3.28 ft (1 m) tall.			
2				Herb – All herbaceous (non-woody) plants, regardle			
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size:30'	)			Woody vines – All woody vines greater than 3.28 ft			
Toxicodendron radicans	5	Yes	FAC	height.			
2. Celastrus orbiculatus	5	Yes	FACU				
3.				Hydrophytic Vegetation			
L.				Present? Yes No X			
	10	=Total Cover					

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument t	he indica	tor or c	onfirm the absence of in	dicators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-6	10YR 3/3	100					Loamy/Clayey		
6-17	10YR 6/3	100					Loamy/Clayey		
					·				
					·				
					·				
					·				
					·				
	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.		Pore Lining, M=Ma	
Hydric Soil I			Dauls Cuufaaa (	07)				Problematic Hydr	
Histosol	(A1) ipedon (A2)		Dark Surface ( Polyvalue Belo		000 (58) (			(A10) ( <b>LRR K, L,</b> e Redox (A16) ( <b>L</b>	
Black His			Polyvalde Belo		ice (36) (i	LKK K,		Peat or Peat (S3	-
	n Sulfide (A4)		Thin Dark Surf	,	) (LRR R	MLRA		elow Surface (S8	
	Layers (A5)		High Chroma S					urface (S9) (LRR	
	Below Dark Surface	e (A11)	Loamy Mucky	-				nese Masses (F12	
	rk Surface (A12)	( )	Loamy Gleyed			, ,			19) ( <b>MLRA 149B</b> )
	podic (A17)		Depleted Matri						utside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	urface (F	=6)		Very Shallov	w Dark Surface (F	-22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (Expla	ain in Remarks)	
	leyed Matrix (S4)		Redox Depress				2		
	edox (S5)		Marl (F10) (LR					of hydrophytic veg	
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	-21) (MLF	RA 145)		ydrology must be sturbed or problen	•
Restrictive I	.ayer (if observed):								
Туре:									
Depth (ir	iches).						Hydric Soil Present?	Yes	No X
Remarks:									



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

Project/Site: CHPE Cit	ty/County: Guilderland/Albany Sampling Date: 7/29/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-K Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local relie	ef (concave, convex, none): <u>concave</u> Slope %: <u>5</u>
Subregion (LRR or MLRA): LRR R Lat: 42 43 24"N	Long: <u>-73 57 40"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	P Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology naturally problematic?	? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No           Yes         X         No           Yes         X         No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: near flag P5-K-2
Remarks: (Explain alternative procedures Common reed marsh.	here or in a separate report.)	

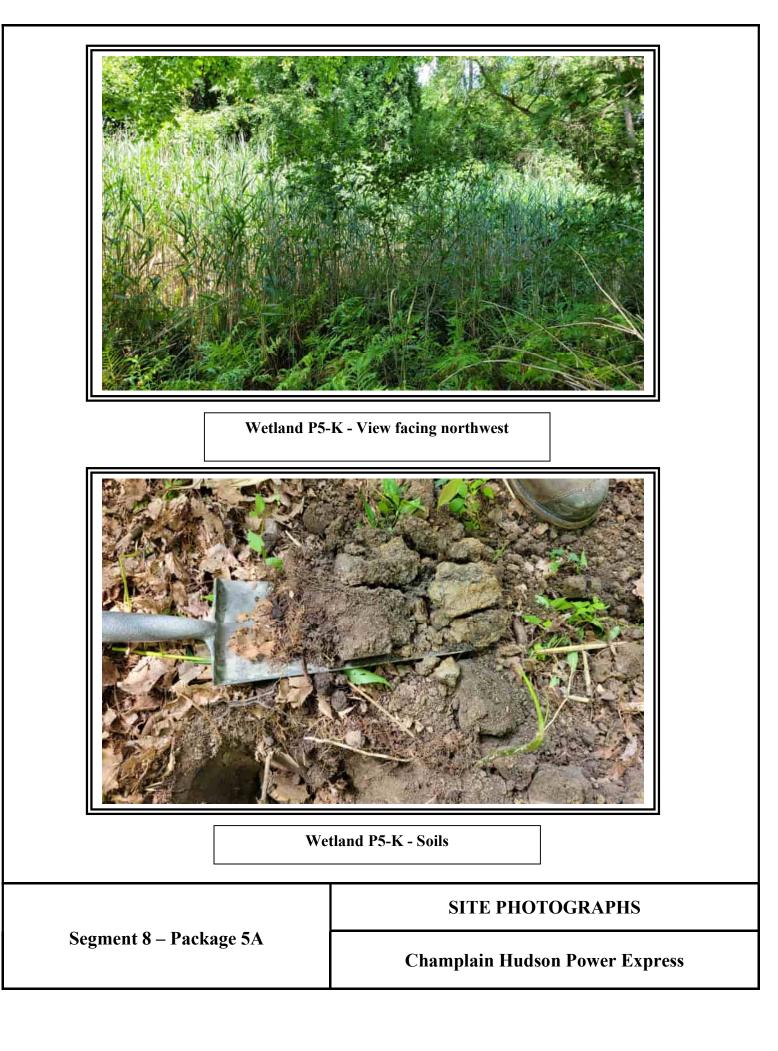
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	) <u>x</u> 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	etland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	s), if available:			
Remarks:					

Sampling Point: P5-K 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. 3.				That Are OBL, FACW, or FAC:(A)
4.				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species         0         x 1 =         0
1. Cornus racemosa	5	Yes	FAC	FACW species 95 x 2 = 190
2. Lonicera morrowii	5	Yes	FACU	FAC species 22 x 3 = 66
3. Rhamnus cathartica	2	No	FAC	FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
5.				Column Totals: 127 (A) 296 (B)
6.				Prevalence Index = B/A = 2.33
7.				Hydrophytic Vegetation Indicators:
	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phragmites australis	75	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Onoclea sensibilis	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago rugosa	5	No	FAC	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				_
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1. Celastrus orbiculatus	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
·	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa				
Remarks. (include photo numbers here of on a sepa	rate sheet.)			

L

Profile Desc	ription: (Describe t	o the de	oth needed to docu	ument th	he indica	tor or c	onfirm the absence of indi	cators.)
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	10YR 2/1	100					Loamy/Clayey	
1-4	10YR 3/1	80	10YR 4/6	20	C	pl	Loamy/Clayey P	rominent redox concentrations
4-16	10YR 4/2	70	10YR 5/8	30	с		Loamy/Clayey P	rominent redox concentrations
	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.		ore Lining, M=Matrix.
Hydric Soil I				o = )				oblematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (					10) (LRR K, L, MLRA 149B)
Black His	ipedon (A2)		Polyvalue Belo MLRA 149B		ce (So) (	LKK K,		Redox (A16) ( <b>LRR K, L, R</b> ) Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surfa	<b>,</b>		MLRA		ow Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S		-			face (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky I					ese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont Flo	odplain Soils (F19) ( <b>MLRA 149B</b> )
Mesic Sp	odic (A17)		X Depleted Matrix				Red Parent M	laterial (F21) <b>(outside MLRA 145)</b>
-	A 144A, 145, 149B)		Redox Dark Su					Dark Surface (F22)
Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)					Other (Explain	n in Remarks)		
	leyed Matrix (S4)		Redox Depress		8)		31	beeder when the second state of second
	edox (S5) Matrix (S6)		Marl (F10) (LR		21) /MI 6	DA 446)		hydrophytic vegetation and
Supped			Red Parent Ma	iterial (F	21) (IVILI	(A 145)	-	drology must be present, urbed or problematic.
Restrictive L	ayer (if observed):							
Type:	<b>,</b>							
- Depth (in	iches):						Hydric Soil Present?	Yes X No
Remarks:	,							
Remarks.								



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

Project/Site: CHPE	City/County: Guilderland/Albany Sampling Date: 7/29/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-K Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local re	lief (concave, convex, none): <u>convex</u> Slope %: <u>5</u>
Subregion (LRR or MLRA): LRR R Lat: 42 43 24"N	Long:73 57 39"W Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification: near flag P5-K-2
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	ic? (If needed, explain any answers in Remarks.)

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

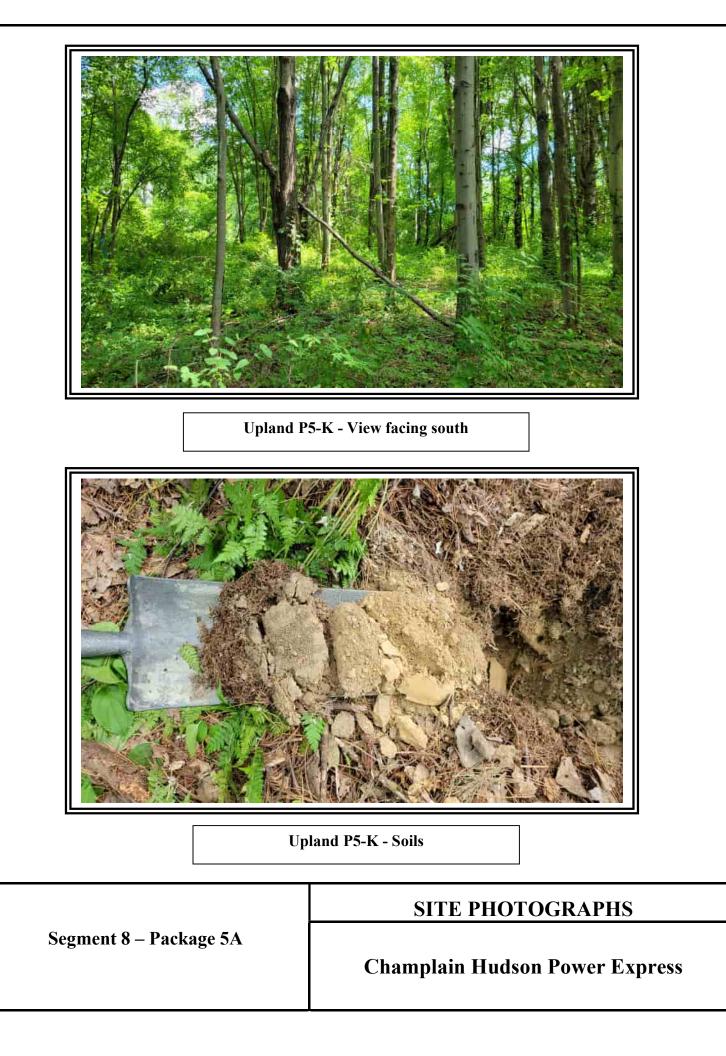
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-K-2
Remarks: (Explain alternative procedure Deciduous forest.	s here or in a separate rep	ort.)

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)		
High Water Table (A2)	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)	ots (C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6) Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	) Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present? Yes No X		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available:		
Remarks:				

Sampling Point: P5-K Upl

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer rubrum	80	Yes	FAC	Number of Dominant Species		
2. Pinus strobus	10	No	FACU	That Are OBL, FACW, or FAC:	2	_(A)
3				Total Number of Dominant		
ł				Species Across All Strata:	7	_(B)
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC:	28.6%	(A/E
7.				Prevalence Index worksheet:		_
	90	=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 0 x	1 = 0	
Prunus serotina	10	Yes	FACU	FACW species 0 x	2 = 0	
2. Lonicera morrowii	10	Yes	FACU	· · · · · · · · · · · · · · · · · · ·	3 = 450	
3. Fagus grandifolia	5	Yes	FACU	· · · · · · · · · · · · · · · · · · ·	4 = 320	
					5 = 0	
				Column Totals: 230 (A		(
		·		Prevalence Index = B/A =	·	(
·		·		Hydrophytic Vegetation Indicate		_
	25	=Total Cover		1 - Rapid Test for Hydrophytic		
<u>lerb Stratum</u> (Plot size: 5')				2 - Dominance Test is >50%	ovogotation	
I. Toxicodendron radicans	70	Yes	FAC	$3 - Prevalence Index is \leq 3.0^{1}$		
2. Parthenocissus quinquefolia	10	<u> </u>	FACU	4 - Morphological Adaptations	s <sup>1</sup> (Provide su	innort
3. Fraxinus americana	5	No	FACU	data in Remarks or on a se		
I. Prunus serotina	5	<u>No</u>	FACU	Problematic Hydrophytic Veg	latation <sup>1</sup> (Eval	loin)
	5	No No	FACU		etation (Exp	aiii)
				J be present, unless disturbed or problematic.		
5. <u>Rosa multiflora</u>	5	No	FACU			
·		·		Definitions of Vegetation Strata	1:	
3 )		·		<b>Tree</b> – Woody plants 3 in. (7.6 cn diameter at breast height (DBH),		heigh
IO I1.				<b>Sapling/shrub</b> – Woody plants le and greater than or equal to 3.28		DBH
12.		·			. ,	
	100	=Total Cover		Herb – All herbaceous (non-wood of size, and woody plants less that		jardle
Noody Vine Stratum (Plot size: 30')						
1. Celastrus orbiculatus	, 10	Yes	FACU	Woody vines – All woody vines g height.	greater than 3	.28 ft
2. Parthenocissus quinquefolia	5	Yes	FACU			
		103	1,400	Hydrophytic		
s 4.		·		Vegetation Present? Yes	No Y	
*		Tatal Osuar			No <u>X</u>	
	15	=Total Cover				

Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Typal         Loamy/Clayey           3-16         10YR 5/6         100	Profile Desc	ription: (Describe	to the de	pth needed to docu	ument t	he indica	ator or co	onfirm the absence of indi	cators.)
0-3         10YR 4/2         100         Loamy/Clayey           3-16         10YR 5/6         100         Loamy/Clayey           3-10         Loamy/Clayey         Loamy/Clayey <tr< td=""><td>Depth</td><td></td><td></td><td></td><td>x Featu</td><td></td><td></td><td></td><td></td></tr<>	Depth				x Featu				
3-16         10YR 5/6         100	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Introduction       Image: Section of the sectin of the section of the section of the section of the s	0-3	10YR 4/2	100					Loamy/Clayey	
Introduction       Image: Section of the sectin of the section of the section of the section of the s	3-16	10YR 5/6	100					Loamv/Clavev	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:						·			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:						·			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:						·			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:						·			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:						·			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 1444, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)         Restrictive Layer (if observed):       Type:         Type:	1								
Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:			etion, RN	Reduced Matrix, N	/IS=Mas	sked Sand	d Grains.		-
Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R, Black Histic (A3)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, R)         Mesic Spodic (A17)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	-			Dark Surface (	97)				
Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, R)         Mesic Spodic (A17)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Depth (inches):       Yes No _X	I —	. ,		`	,	ace (S8) (			
Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 145)         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:						.00 (00) (	,		
Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 145)         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Depth (inches):       Hydric Soil Present?       Yes No _X					·	) (LRR R	, MLRA <sup>,</sup>		
Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 145)         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:									
Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 145)         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mangane	se Masses (F12) (LRR K, L, R)
(MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3 Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3 Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	(F2)		Piedmont Floo	odplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Mesic S	podic (A17)		Depleted Matri	x (F3)			Red Parent M	aterial (F21) <b>(outside MLRA 145</b>
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Restrictive Layer (if observed):       unless disturbed or problematic.         Type:       Hydric Soil Present?         Depth (inches):       No					`	'			
Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes No X		• • • •						Other (Explain	n in Remarks)
Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:					•	,		31	hander of the second of the second
Image: marked of problematic         unless disturbed or problematic.           Restrictive Layer (if observed):					-		DA 446)		
Restrictive Layer (if observed):           Type:           Depth (inches):           Hydric Soil Present?           Yes	Supped				ateriai (r	-21) (IVILI	(A 145)		•••
Type:	Restrictive I	Laver (if observed):							
	Туре:	,							
	- Depth (ir	nches):						Hvdric Soil Present?	Yes No X
	Remarks:	,							
	1								



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

Project/Site: CHPE City.	/County: Guilderland/Albany	Sampling Date: 7/29/22
Applicant/Owner: TDI	State: NY	Sampling Point: P5-L Wet POW
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): depression Local relief	(concave, convex, none): concave	Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42 43 19"N	Long:73 57 38"W	Datum: WGS84
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification:	POW
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" prese	nt? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in l	Remarks.)

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

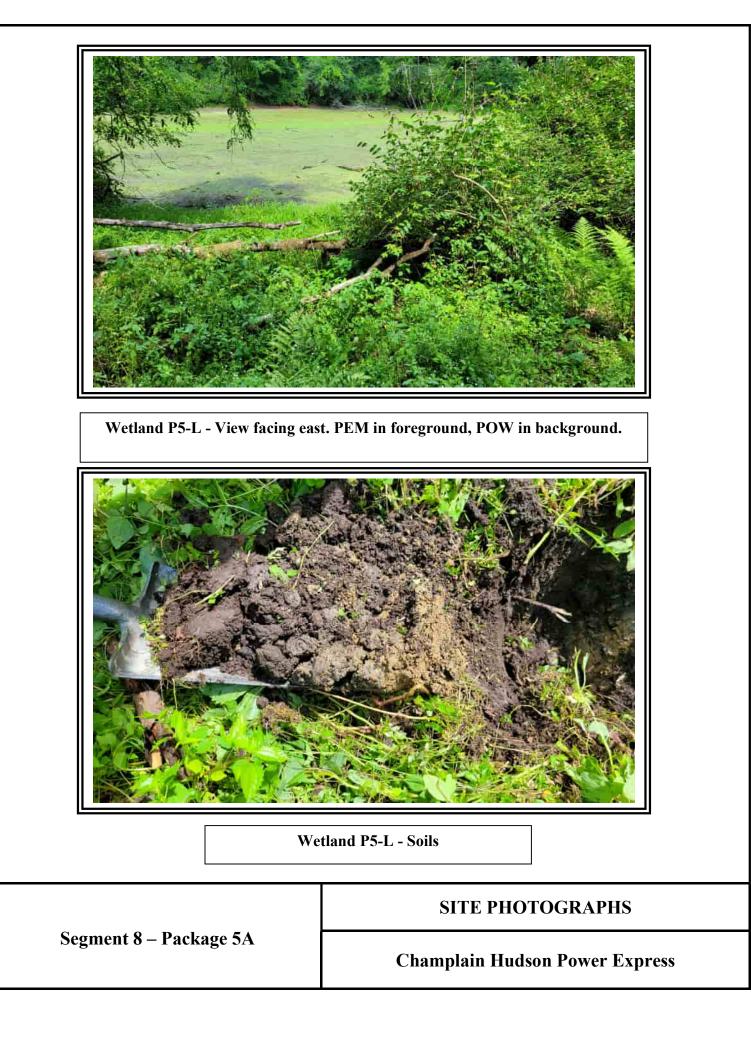
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No           Yes         No         X           Yes         X         No	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-L-9
Remarks: (Explain alternative procedures h Seasonally inundated pond.	nere or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)							
X Surface Water (A1)	_x_Water-Stained Leaves (B9)	Drainage Patterns (B10)						
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)						
x Saturation (A3)	Marl Deposits (B15)	x Dry-Season Water Table (C2)						
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)						
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	x Geomorphic Position (D2)						
Iron Deposits (B5)	x Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remarks)	Microtopographic Relief (D4)						
x Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes x	No Depth (inches): 12							
Water Table Present? Yes x	No Depth (inches): 0							
Saturation Present? Yes x	No Depth (inches): 0 Wetla	nd Hydrology Present? Yes X No						
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), i	available:						
Remarks:								

Sampling Point: P5-L Wet POW

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 99 x 1 = 99
1				FACW species 1 x 2 = 2
2				FAC species x 3 =
3				FACU species x 4 =0
4				UPL species x 5 =
5				Column Totals: 100 (A) 101 (B)
6				Prevalence Index = B/A =1.01
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lemna minor	99	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. <u>Bidens frondosa</u>	1	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
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	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				the describe Ale
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

		to the de				tor or co	onfirm the absence o	of indicators.)	
Depth	Matrix			x Featu		1 2	<b>-</b> .	5	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
					·				
				·					
				·	·				
					·				
					·				
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RN	I=Reduced Matrix, I	MS=Mas	ked Sand	l Grains.		PL=Pore Lining, M=M	
Hydric Soil	Indicators:						Indicators f	or Problematic Hyd	ric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2 cm Mu	uck (A10) ( <b>LRR K, L</b> ,	MLRA 149B)
Histic Ep	pipedon (A2)		Polyvalue Bel	ow Surfa	ace (S8) (I	_RR R,	Coast P	rairie Redox (A16) ( <b>L</b>	.RR K, L, R)
Black Hi	stic (A3)		MLRA 149E	3)			5 cm Mi	ucky Peat or Peat (S	3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		Thin Dark Sur	face (S9	) (LRR R	MLRA	149B) Polyvalu	ue Below Surface (S8	3) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		High Chroma	Sands (S	S11) ( <b>LRF</b>	R K, L)	Thin Da	rk Surface (S9) (LRF	R K, L)
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Iron-Ma	nganese Masses (F1	2) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Loamy Gleyed	d Matrix (	(F2)		Piedmo	nt Floodplain Soils (F	19) ( <b>MLRA 149B</b> )
Mesic S	podic (A17)		Depleted Matr	ix (F3)			Red Par	rent Material (F21) <b>(c</b>	utside MLRA 145
(MLR	A 144A, 145, 149B)		Redox Dark S	urface (F	F6)		Very Sh	allow Dark Surface (	F22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Remarks)	
Sandy G	Gleyed Matrix (S4)		Redox Depres	sions (F	8)				
	Redox (S5)		Marl (F10) (LF		-		<sup>3</sup> Indicate	ors of hydrophytic ve	getation and
	Matrix (S6)		Red Parent M			RA 145)		nd hydrology must be	-
				,	/ (	- ,		s disturbed or proble	
Restrictive	Layer (if observed):							•	
Type:									
							Hydric Soil Prese	nt? Vaa	No Y
Depth (ii	nches):						Hydric Soli Prese	nt? Yes	NoX
Remarks:									
Did not colle	ct soils due to standi	ng wate a	nd dominance by F	ACW/OI	BL specie	s.			
1									



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

Project/Site: CHPE City	//County: Guilderland/Albany Sampling Date: 7/29/22						
Applicant/Owner: TDI	State: NY Sampling Point: P5-L Wet PEM						
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope %: 1							
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 19"N	Long:73 57 39"W Datum: WGS84						
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification: PEM2						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" present? Yes x No						
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remarks.)						

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: near flag P5-L-9
Remarks: (Explain alternative procedures Shallow emergent marsh fringe to a seaso	,	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)		
x Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	x Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes x	No Depth (inches): 10 Wetlan	d Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
Remarks:				

Sampling Point: P5-L Wet PEM

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)			
3 4				Total Number of Dominant Species Across All Strata: 1 (B)			
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
7				Prevalence Index worksheet:			
	:	=Total Cover		Total % Cover of:Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0			
1				FACW species 80 x 2 = 160			
2.				FAC species 15 x 3 = 45			
3.				FACU species 0 x 4 = 0			
4.				UPL species $0 \times 5 = 0$			
5				Column Totals: 95 (A) 205 (B)			
6				Prevalence Index = $B/A = 2.16$			
7				Hydrophytic Vegetation Indicators:			
··		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%			
/	<u> </u>	Vaa					
1. Impatiens capensis	60	Yes	FACW	X 3 - Prevalence Index is $≤3.0^{1}$			
2. Persicaria maculosa		No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
3. <u>Stellaria longifolia</u>	15	No	FACW				
4. <u>Thelypteris palustris</u>	5	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.				Herb – All herbaceous (non-woody) plants, regardless			
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
2.							
3.				Hydrophytic Vegetation			
4.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a sepa				1			
	,						

Profile Desc	ription: (Describe	o the dep	oth needed to docu	ument tl	ne indica	ator or co	onfirm the absence of	f indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-8	10YR 2/1	100					Loamy/Clayey		
8-10	10YR 3/1	70	10YR 4/6	30	c		Loamy/Clayey	Prominent redox	concentrations
10-16	10YR 3/1	55	10YR 5/6	45	C		Loamy/Clayey	Prominent redox	concentrations
10-16	10YR 3/1	 	10YR 5/6	     	   ked Sanc ce (S8) (I (11) (LRI (F1) (LRI F2) (F1) (LRI F2) (F7) B)		Loamy/Clayey	Prominent redox	concentrations

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					

Project/Site: CHPE	City/County: Guilderland/Albany Sampling Date: 7/29/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-L Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local	relief (concave, convex, none): convex Slope %: 40
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 19"N	Long: _73 57 39"W Datum: WGS84
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distu	irbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	npling point locations, transects, important features, etc.

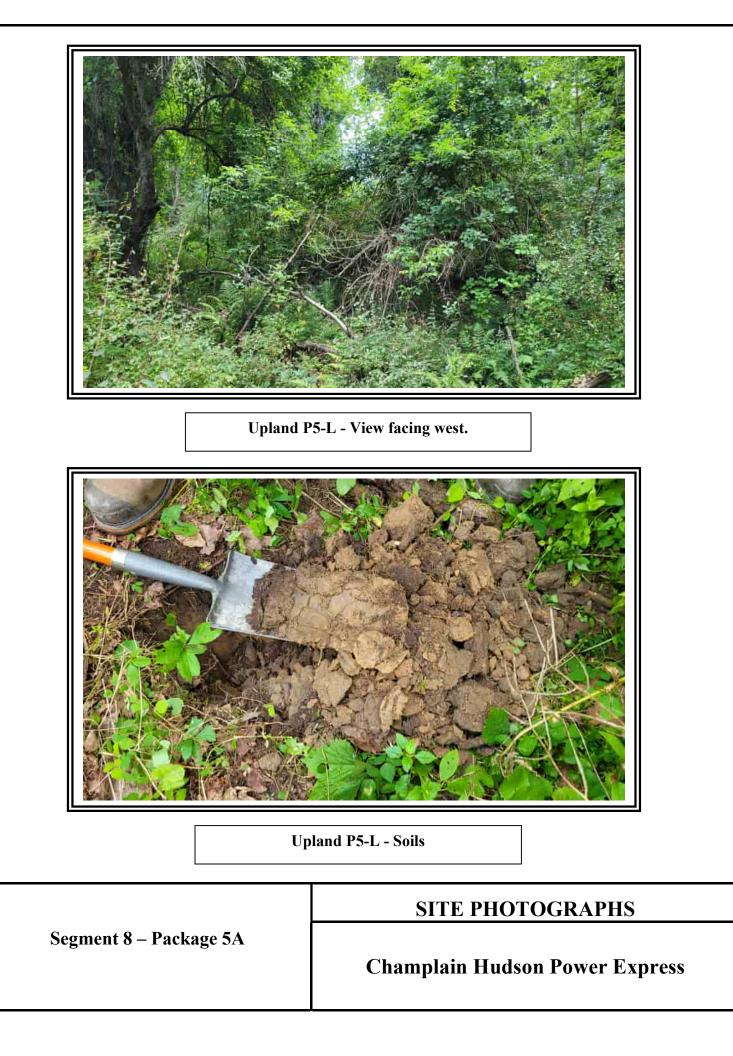
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No_X Yes No_X Yes No_X	within a Wetland? Yes No X
Remarks: (Explain alternative procedures Deciduous forest.	here or in a separate r	report.)

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
Surface Water (A1)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	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 Roc	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	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	)Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	8)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	
Water Table Present? Yes	No x Depth (inches):	
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:		

Sampling Point: P5-L Upl

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
. Fraxinus americana	30	Yes	FACU	- Number of Deminent Creation		
2. Malus		Yes		Number of Dominant Species           That Are OBL, FACW, or FAC:         2		
3. Prunus serotina	20	Yes	FACU	Total Number of Dominant		
Acer negundo	20	Yes	FAC	Species Across All Strata: 11 (B)		
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC: 18.2% (A/		
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. Rosa multiflora	- 30	Yes	FACU	FACW species 20 x 2 = 40		
2. Lonicera tatarica		Yes	FACU	FAC species 25 x 3 = 75		
3. Rubus allegheniensis	10	No	FACU	FACU species 195 x 4 = 780		
4.				UPL species 0 x 5 = 0		
5.		·		Column Totals: 240 (A) 895 (		
		·		Prevalence Index = $B/A = 3.73$		
7.				Hydrophytic Vegetation Indicators:		
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%		
I. Impatiens capensis	20	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Circaea canadensis	20	Yes	FACU	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporti</li> </ul>		
3. Parthenocissus quinquefolia	15	Yes	FACU	data in Remarks or on a separate sheet)		
4. Alliaria petiolata	10	No	FACU	<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>		
5. Rosa multiflora	10	No	FACU			
6. Rubus allegheniensis	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.		
7. Parathelypteris noveboracensis	5	No	FAC	Definitions of Vegetation Strata:		
3.						
).				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh		
10.						
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
12.						
	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30'	)					
1. Celastrus orbiculatus	_′ 5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft height.		
2. Parthenocissus quinquefolia	5	Yes	FACU	Toight.		
3.				Hydrophytic		
4.		·		Vegetation Present? Yes No X		
T		=Total Cover				
	10					

Profile Desc	ription: (Describe t	o the de	pth needed to docu	ument t	he indica	tor or co	onfirm the absence of ind	icators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-1	10YR 2/1	100					Loamy/Clayey		
1-4	10YR 3/4	100					Loamy/Clayey		
4-16	10YR 5/6	100					Loamy/Clayey		
					·				
					·				
					·				
					·				
					·				
							21 a cationa DI -D	ne Linine M-M	-4-11-
Hydric Soil I	ncentration, D=Depl	elion, Riv		/iS=ivias	sked Sand	Grains.	<sup>2</sup> Location: PL=P Indicators for P	-	
Histosol			Dark Surface (	S7)				10) (LRR K, L,	
	ipedon (A2)		Polyvalue Belo		ace (S8) (I	LRR R,		Redox (A16) (L	
Black His			 MLRA 149B		( -/(	,			3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1		low Surface (S8	
Stratified	Layers (A5)		High Chroma S	Sands (S	S11) ( <b>LRI</b>	R K, L)	Thin Dark Su	rface (S9) ( <b>LRF</b>	R K, L)
Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mangan	ese Masses (F1	2) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Loamy Gleyed		(F2)				19) ( <b>MLRA 149B</b> )
	odic (A17)		Depleted Matri						utside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su					Dark Surface (I	F22)
· ·	ucky Mineral (S1)		Depleted Dark		. ,		Other (Expla	n in Remarks)	
	leyed Matrix (S4) edox (S5)		Redox Depress Marl (F10) (LR				<sup>3</sup> Indicators of	hydrophytic veg	netation and
	Matrix (S6)		Red Parent Ma			RA 145)		drology must be	
						,	-	urbed or probler	
Restrictive L	ayer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil Present?	Yes	NoX
Remarks:									



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

Project/Site: CHPE	City/County: Guilderland/Albany Sampling Date: 7/29/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-M Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Loc	cal relief (concave, convex, none): <u>concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dis	sturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.

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

	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)Water-Stained Leaves (B9)	Drainage Patterns (B10)		
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)		
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2) x Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	x Geomorphic Position (D2)		
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)		
Field Observations:			
Surface Water Present? Yes No x Depth (inches):			
Water Table Present? Yes No x Depth (inches):			
Saturation Present? Yes x No Depth (inches): 12 Wetlan	d Hydrology Present? Yes X No		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
	available:		
	available:		
	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:		

Sampling Point: P5-M Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Alnus incana	10	Yes	FACW	Number of Deminent Creation
2.				Number of Dominant Species           That Are OBL, FACW, or FAC:         6         (A)
3				Total Number of Dominant
4		<u> </u>		Species Across All Strata: 8 (B)
5 6.		- <u> </u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/E
7.				Prevalence Index worksheet:
· · · · · · · · · · · · · · · · · · ·	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)	-		$\begin{array}{c} \hline \hline \\ OBL \text{ species} & 0 \\ \hline \\ \end{array} \begin{array}{c} x 1 = 0 \\ \hline \\ x 1 = 0 \\ \hline \\ \end{array}$
1. Cornus amomum	, 50	Yes	FACW	FACW species 130 $x 2 = 260$
	30	Yes	FACW	FAC species $25 \times 3 = 75$
3. Lonicera morrowii	20	Yes	FACU	FACU species 55 $x 4 = 220$
4	, <u> </u>			UPL species $0 \times 5 = 0$
5				Column Totals: 210 (A) 555 (E
6		·		Prevalence Index = B/A = 2.64
7		<u> </u>		Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Solidago rugosa	25	Yes	FAC	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Impatiens capensis	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
3. Cornus amomum	15	Yes	FACW	data in Remarks or on a separate sheet)
4. Rosa multiflora	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ol> <li>Osmundastrum cinnamomeum</li> <li>6.</li> </ol>	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of heigh
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardles
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30'	)	-		Weedwines Allowedwines mester then 2.20 ft
1. Celastrus orbiculatus	30	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
	30	=Total Cover		

# SOIL

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument ti	he indica	ator or co	onfirm the absence of in	dicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/1	90	10YR 4/4	10	C	m	Loamy/Clayey	Distinct redox concentrations
6-16	10YR 4/1	60	10YR 4/6	40	c	PL/M	Loamy/Clayey	Prominent redox concentrations
<u> </u>								
	oncentration, D=Depl	etion RM		 26M-21	ked Sand		<sup>2</sup> l ocation: Pl =	Pore Lining, M=Matrix.
Hydric Soil				/10-11/185	Keu San	d Grains.		Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (	S7)				(A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		Polyvalue Belo	· ·	ce (S8) (	LRR R,		ie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		 MLRA 149B	)			5 cm Muck	y Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surf				149B) Polyvalue E	Below Surface (S8) (LRR K, L)
	l Layers (A5)		High Chroma S					Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	e (A11)	Loamy Mucky			R K, L)		nese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Loamy Gleyed		F2)			loodplain Soils (F19) ( <b>MLRA 149B</b> )
	podic (A17) A 144A, 145, 149B)		X Depleted Matri		-6)			: Material (F21) <b>(outside MLRA 145)</b> w Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark	•	,			ain in Remarks)
	Bleyed Matrix (S4)		x Redox Depres					
	edox (S5)		 Marl (F10) ( <b>LR</b>		,		<sup>3</sup> Indicators	of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(ML</b> F	RA 145)	wetland h	nydrology must be present,
							unless di	sturbed or problematic.
	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Present?	Yes X No
Remarks:								



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

Project/Site: CHPE C	tity/County: Guilderland/Albany Sam	npling Date: 7/29/22
Applicant/Owner: TDI	State: NY Sate: NY	ampling Point: P5-M Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope Local reli	ief (concave, convex, none): <u>convex</u>	Slope %: 5
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 17"N	Long:73 57 39"W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to 8 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, expla	in in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbe	d? Are "Normal Circumstances" present?	Yes x No
Are Vegetation, Soil, or Hydrologynaturally problemation	c? (If needed, explain any answers in Rem	arks.)

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

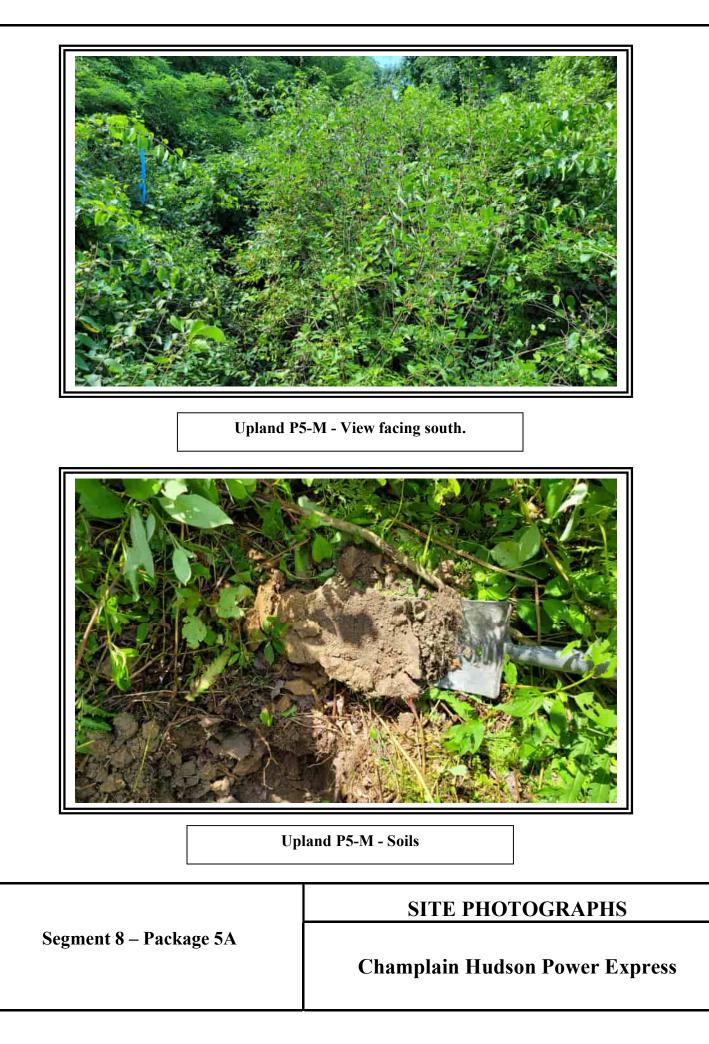
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-M-7
Remarks: (Explain alternative procedure Deciduous forest.	Shere or in a separate report.	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roo	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	ls (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	38)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	
Water Table Present? Yes	No x Depth (inches):	
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ections), if available:
Remarks:		

Sampling Point: P5-M Upl

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
60	Yes	FAC	Number (Deminent On 1		
			Number of Dominant Species           That Are OBL, FACW, or FAC:         2         (A)		
			Total Number of Dominant		
			Species Across All Strata: 7 (B)		
			Percent of Dominant Species		
			That Are OBL, FACW, or FAC: 28.6% (A/		
			Prevalence Index worksheet:		
60	=Total Cover		Total % Cover of: Multiply by:		
)			OBL species x 1 =		
70	Yes	FACU	FACW species 5 x 2 = 10		
20	Yes	FAC	FAC species 80 x 3 = 240		
			FACU species 215 x 4 = 860		
			UPL species 0 x 5 = 0		
			Column Totals: 300 (A) 1110 (		
			Prevalence Index = B/A = 3.70		
			Hydrophytic Vegetation Indicators:		
90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
	-		2 - Dominance Test is >50%		
40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
40	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide support		
5	No	FACU	data in Remarks or on a separate sheet)		
5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus		
5	No	FACU	be present, unless disturbed or problematic.		
			Definitions of Vegetation Strata:		
			<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in		
			diameter at breast height (DBH), regardless of heigh		
			Sapling/shrub – Woody plants less than 3 in. DBH		
<u> </u>			and greater than or equal to 3.28 ft (1 m) tall.		
			Herb – All herbaceous (non-woody) plants, regardle		
100	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
)	_		Woody vines – All woody vines greater than 3.28 ft		
40	Yes	FACU	height.		
10	Yes	FACU			
			Hydrophytic		
			Vegetation Present? Yes No X		
	=Total Cover				
		60       =Total Cover         70       Yes         20       Yes         20       Yes         90       =Total Cover         90       =Total Cover         40       Yes         5       No         5       No         5       No         5       No         5       No         5       No         100       =Total Cover         40       Yes         5       No         5 <td< td=""><td>60       =Total Cover         70       Yes         70       Yes         20       Yes         20       Yes         90       =Total Cover         90       =Total Cover         40       Yes         5       No         7       Total Cover</td></td<>	60       =Total Cover         70       Yes         70       Yes         20       Yes         20       Yes         90       =Total Cover         90       =Total Cover         40       Yes         5       No         7       Total Cover		

Profile Desc	ription: (Describe	to the de	pth needed to doci	ument t	he indica	tor or c	onfirm the absence of indic	cators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-8	10YR 4/3	100					Loamy/Clayey		
8-16	10YR 5/3	100					Loamy/Clayey		
					·				
					·				
					·				
					·				
					·				
					·				
					·				
					·				
	oncentration, D=Depl	etion, RN	1=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: PL=Por		
Hydric Soil I							Indicators for Pro		
Histosol			Dark Surface (					10) ( <b>LRR K, L,</b>	
	vipedon (A2)		Polyvalue Belo		ice (58) (	LKK K,		Redox (A16) (L	-
Black His	n Sulfide (A4)		Thin Dark Surf	<i>,</i>		MIRA		ow Surface (S8	) (LRR K, L, R)
	Layers (A5)		High Chroma §	-				face (S9) (LRR	
	Below Dark Surface	e (A11)	Loamy Mucky						2) ( <b>LRR K, L, R</b> )
	rk Surface (A12)	( )	Loamy Gleyed			, ,			19) ( <b>MLRA 149B</b> )
	podic (A17)		Depleted Matri		. ,				utside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	urface (I	F6)		Very Shallow I	Dark Surface (F	22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	∋ (F7)		Other (Explain	in Remarks)	
	leyed Matrix (S4)		Redox Depres				2		
	edox (S5)		Marl (F10) ( <b>LR</b>					nydrophytic veg	
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	=21) <b>(ML</b> F	RA 145)		rology must be	
Destrictive I	_ayer (if observed):						unless distu	rbed or problen	natic.
Type:	ayer (il observed):								
-									
Depth (ir	icnes):						Hydric Soil Present?	Yes	NoX
Remarks:									
1									



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

Project/Site: CHPE	City/County: Guilderland/Albany Sampling Date: 7/27/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-F Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): lake Lo	cal relief (concave, convex, none): concave Slope %: 10
Subregion (LRR or MLRA):         LRR R         Lat:         42 43 18"N	Long: <u>-73 57 42"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification: PEM2/POW
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly of	isturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF SINDINGS Attach site man abouting	ampling point locations transacts important factures ato

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

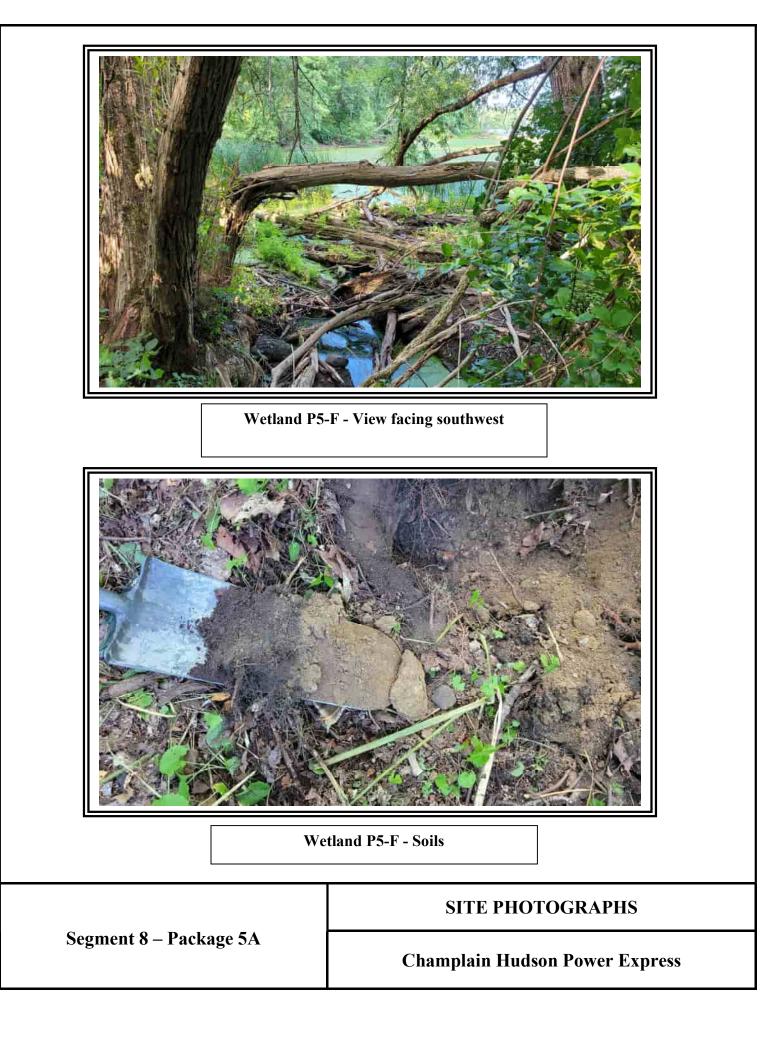
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No           Yes         No         X           Yes         X         No	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures h PEM fringe on edge of Watervliet Reservoir		

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)			
X Surface Water (A1)	Drainage Patterns (B10)				
X High Water Table (A2)	X Aquatic Fauna (B13)	Moss Trim Lines (B16)			
X Saturation (A3)	Marl Deposits (B15)	X Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
X Inundation Visible on Aerial Imagery (B7)	) Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes x	No Depth (inches): 24				
Water Table Present? Yes x	No Depth (inches): 0				
Saturation Present? Yes x	No Depth (inches): 0 Wetla	nd Hydrology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:			
Remarks:					

Sampling Point: P5-F Wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix alba</u> 2.	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3				
4.				Total Number of Dominant         Species Across All Strata:         3         (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species         60         x 1 =         60
1				FACW species 80 x 2 = 160
2.				FAC species $0 \times 3 = 0$
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 140 (A) 220 (B)
6.				Prevalence Index = B/A = 1.57
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Typha latifolia	50	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Bidens frondosa	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Impatiens capensis	10	No	FACW	data in Remarks or on a separate sheet)
4. Lemna minor	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Trace Weederster 2 in (7.0 err.) er menne in
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				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 sepa	arate sheet.)			

	Matrix		x Features           %         Type1		Texture	Remar	ks	
	or (moist)%	Color (moist)	<u>%</u> Type <sup>*</sup>		Texture	Remai	ks	
	ation, D=Depletion,	RM=Reduced Matrix, I	MS=Masked Sand	Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Ma	trix.	
Hydric Soil Indicate	ors:				Indicators for Prob	lematic Hydri	c Soils <sup>3</sup> :	
Histosol (A1)		Dark Surface	(S7)		2 cm Muck (A10	)) ( <b>LRR K, L, I</b>	<b>VLRA 149B</b> )	
Histic Epipedon	(A2)	Polyvalue Belo	Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K,				<b>≀R K, L, R</b> )	
Black Histic (A3		MLRA 149E	B)		5 cm Mucky Pea	at or Peat (S3)	(LRR K, L, R)	
Hydrogen Sulfid		Thin Dark Sur	face (S9) (LRR R,	MLRA 149B)	Polyvalue Below			
Stratified Layers			Sands (S11) (LRR	-	Thin Dark Surfa			
	Dark Surface (A11		Mineral (F1) (LRR		Iron-Manganese			
Thick Dark Surf		Loamy Gleyed		. ,	Piedmont Flood	-		
Mesic Spodic (A		Depleted Matr						
(MLRA 144A		Redox Dark S			Red Parent Material (F21) <b>(outside MLR</b> Very Shallow Dark Surface (F22)			
Sandy Mucky M		Depleted Dark			Other (Explain ir		/	
Sandy Gleyed N		Redox Depres				, ,		
Sandy Redox (S	. ,	Marl (F10) ( <b>LF</b>			<sup>3</sup> Indicators of hy	drophytic yea	etation and	
Stripped Matrix			aterial (F21) <b>(MLR</b>	Δ 145)	wetland hydro			
	(00)			- (	unless disturb			
Restrictive Layer (i	f observed):						ano.	
Type:	observeu).							
Depth (inches):				Hyd	dric Soil Present?	Yes	<u>No X</u>	



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

Project/Site: CHPE Ci	ty/County: Guilderland/Albany Sa	ampling Date: 7/27/22
Applicant/Owner: TDI	State: NY	Sampling Point: P5-F Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope Local relie	ef (concave, convex, none): <u>concave</u>	Slope %: 35
Subregion (LRR or MLRA): LRR R Lat: 42 43 18"N	Long:73 57 42"W	Datum: WGS84
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, exp	olain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	Are "Normal Circumstances" present?	? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Re	emarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-F-3
Remarks: (Explain alternative procedure Deciduous forest.	s here or in a separate report.)	

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

Sampling Point: P5-F Upl

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Robinia pseudoacacia	30	Yes	FACU				
Populus deltoides	20	Yes	FAC	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:6(A)			
Prunus serotina	20	Yes	FACU				
Ulmus americana	15	No	FACW	Total Number of DominantSpecies Across All Strata:12(B)			
	_			Percent of Dominant Species			
				That Are OBL, FACW, or FAC: 50.0% (A/E			
				Prevalence Index worksheet:			
	85	=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size: 15'	)			OBL species 0 x 1 = 0			
Acer negundo	10	Yes	FAC	FACW species 50 x 2 = 100			
Rhamnus cathartica	10	Yes	FAC	FAC species 80 x 3 = 240			
Lonicera tatarica	10	Yes	FACU	FACU species 102 x 4 = 408			
Rubus allegheniensis	2	No	FACU	UPL species $0 \times 5 = 0$			
·	_			Column Totals: 232 (A) 748 (B			
	_			Prevalence Index = B/A = 3.22			
	_			Hydrophytic Vegetation Indicators:			
	32	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%			
Impatiens capensis	35	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Urtica dioica	35	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
Alliaria petiolata	25	Yes	FACU	data in Remarks or on a separate sheet)			
Rosa multiflora	5	No	FACU	- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	_			<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
_	_			be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
				<b>Tree</b> – 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			
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
/oody Vine Stratum (Plot size:30'	)			Woody vines – All woody vines greater than 3.28 ft			
Celastrus orbiculatus	5	Yes	FACU	height.			
Toxicodendron radicans	5	Yes	FAC				
Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic Vegetation			
				Present? Yes No X			
		=Total Cover					

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument t	he indica	tor or co	onfirm the absence of inc	licators.)	
Depth	Matrix			x Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-4	10YR 2/1	100					Loamy/Clayey		
4-16	10YR 6/3	100					Sandy		
					·				
					·				
					·				
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion RM	I=Reduced Matrix	/S=Mas	ked Sand	Grains	<sup>2</sup> Location: PL=P	ore Lining M=M	atrix
Hydric Soil I							Indicators for P		
Histosol	(A1)		Dark Surface (	S7)				A10) ( <b>LRR K, L</b> ,	
Histic Ep	ipedon (A2)		Polyvalue Belo		ace (S8) (	LRR R,	Coast Prairie	e Redox (A16) ( <b>L</b>	RR K, L, R)
Black His			MLRA 149B	<i>,</i>				Peat or Peat (S3	
	n Sulfide (A4)		Thin Dark Surf					elow Surface (S8	
	Layers (A5)	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	High Chroma S					urface (S9) ( <b>LRR</b>	
	l Below Dark Surface rk Surface (A12)	e (ATT)	Loamy Mucky Loamy Gleyed			<b>K K, L</b> )		-	2) ( <b>LRR K, L, R</b> ) 19) ( <b>MLRA 149B</b> )
	bodic (A17)		Depleted Matri		(12)				utside MLRA 145B)
	A 144A, 145, 149B)		Redox Dark Su		-6)			v Dark Surface (F	
	ucky Mineral (S1)		Depleted Dark	•	,			in in Remarks)	/
Sandy G	leyed Matrix (S4)		Redox Depres	sions (F	8)				
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicators o	f hydrophytic veg	etation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	-	drology must be	
Bestvieties I							unless dis	turbed or problen	natic.
Type:	.ayer (if observed):								
-	ahaa);						Undria Sail Brasset2	Vaa	
Depth (ir	icnes).						Hydric Soil Present?	Yes	<u>No X</u>
Remarks:									



Upland P5-F - View facing east

# SITE PHOTOGRAPHS

Segment 8 – Package 5A

# **Champlain Hudson Power Express**