

Wetland P5-Q - View facing west.



Wetland P5-Q - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

## 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: Guilder	land/Albany	Sampling Date: 8/25/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-Q Upl
Investigator(s): C. Scrivner & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): convex	Slope %: 5
Subregion (LRR or MLRA): LRR R	Lat: 42 43 34N	•	-73 57 38W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:	
		Voc. v		avalain in Damarka \
Are climatic / hydrologic conditions on the site	,	Yes x	<del></del> ` '	explain in Remarks.)
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea	
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	) P5-Q-5
Remarks: (Explain alternative procedures he Railroad embankment.	ere or in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (	
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
— Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C	·
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Solls (Co)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)	·a\	Shallow Aquitard (D Microtopographic R	· ·
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	· — · · · ·	.S)	FAC-Neutral Test (I	` '
Field Observations:	<u> </u>	<del></del>		D0)
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No X
(includes capillary fringe)	7 Sopan (money)		a riyarorogy	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
, , ,		,		
Remarks:		<del></del>		

# **VEGETATION** – Use scientific names of plants. Sampling Point:

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(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:)				OBL species0 x1 =0
1				FACW species 0 x 2 = 0
2.				FAC species50 x 3 =150
3.				FACU species10 x 4 =40
4				UPL species15 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.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				To a Washington Oir (70 and an arrangin
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All barbassaya (non woody) plants regardless
	75	=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.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)	'		
	·			

P5-Q Upl

SOIL Sampling Point P5-Q Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		<b>ument th</b> x Featur		itor or co	onfirm the absence o	f indicato	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S
(1101100)					1700		Toxtaro		rtoman	
1 <sub>Typo: C=Co</sub>	ncentration, D=Depl	otion PM	A-Poducod Matrix N	 19-Macl	Lod Sand		<sup>2</sup> l ocation: F	I - Poro I	ining, M=Mat	riv
		ellon, ixiv	i-Reduced Matrix, N	/IO-IVIASI	Keu Sand	Giailis.			matic Hydric	
Hydric Soil I			Davida Osserfa a a /	07\					-	
Histosol	` '		Dark Surface (						(LRR K, L, N	•
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LRR R,			ox (A16) ( <b>LR</b>	•
Black His			MLRA 149B	,				-		(LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf		-		<b>49B</b> ) Polyvalu	ie Below S	Surface (S8)	(LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	311) ( <b>LR</b> F	R K, L)	Thin Da	rk Surface	e (S9) ( <b>LRR K</b>	(, L)
Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral (	(F1) ( <b>LR</b> I	R K, L)	Iron-Mai	nganese N	Masses (F12)	(LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmoi	nt Floodpla	ain Soils (F19	9) (MLRA 149B)
Mesic Sp	odic (A17)		Depleted Matri	x (F3)			Red Par	ent Mater	ial (F21) <b>(out</b>	side MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	·6)		Very Sh	allow Dark	k Surface (F2	2)
	ucky Mineral (S1)		Depleted Dark		-			Explain in f		,
	leyed Matrix (S4)		Redox Depress				<del></del> `	•	,	
	edox (S5)		Marl (F10) ( <b>LR</b>		-,		<sup>3</sup> Indicate	ors of hydr	ophytic vege	tation and
	Matrix (S6)		Red Parent Ma		21) <b>(MI F</b>	2Δ 145)		-	gy must be p	
Stripped	Watrix (50)		Red raientime	ateriai (i	21) (IVILI	VA 140)		-	d or problema	
Postriotivo I	.ayer (if observed):						unes	s distuibet	a or problema	auc.
Type:	.ayer (ii observed).									
Depth (in	ches):						Hydric Soil Prese	nt?	Yes	No <u>X</u>
Remarks:										
Soils consist	of railroad ballast.									



Upland P5-Q - View facing north.



**Upland P5-Q - Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

## 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: Guilder	land/Albany	Sampling Date: 7/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-D Wet
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): Depressio	n Local re	elief (concave, conve	ex, none): Concave	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 42 43 29"N		-73 57 41"W	' Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 25				<del></del>
Are climatic / hydrologic conditions on the site	•	Yes x		explain in Remarks.)
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	·
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he Shrub swamp.	ere or in a separate report.)			
LIVEROLOGY				
HYDROLOGY				
Wetland Hydrology Indicators:				ninimum of two required)
Primary Indicators (minimum of one is require			Surface Soil Cracks	
Surface Water (A1)	x Water-Stained Leaves (B1	9)	Drainage Patterns (	·
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)	34)	Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
x Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in	` '	Stunted or Stressed x Geomorphic Position	· ·
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solis (So)	Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)		·e)	Microtopographic R	•
x Sparsely Vegetated Concave Surface (B.	· — · · · ·	3)	X FAC-Neutral Test (I	` '
Field Observations:	<u> </u>			50)
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes X No
(includes capillary fringe)	. , _		,	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

<b>EGETATION</b> – Use scientific names of p	iants.			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					83.3% (A/B)	
7				Prevalence Index worksheet:		
	10	=Total Cover		Total % Cover of: Mu	ultiply by:	
Sapling/Shrub Stratum (Plot size:15'	)			OBL species0 x 1 =	0	
1. Cornus amomum	50	Yes	FACW	FACW species110 x 2 =	220	
2. Ilex verticillata	10	No	FACW	FAC species 30 x 3 =	90	
3. Prunus serotina	5	No	FACU	FACU species15 x 4 =	60	
4				UPL species 0 x 5 =	0	
5				Column Totals: 155 (A)	370(B)	
6			-	Prevalence Index = B/A =	2.39	
7				Hydrophytic Vegetation Indicators:		
	65	=Total Cover		1 - Rapid Test for Hydrophytic Ve	getation	
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%		
1. Impatiens capensis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Toxicodendron radicans	25	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Cornus amomum	10	No	FACW	data in Remarks or on a separate sheet)		
4. Carex tribuloides	5	No	FACW	Problematic Hydrophytic Vegetati	on <sup>1</sup> (Explain)	
5 6.				<sup>1</sup> Indicators of hydric soil and wetland l be present, unless disturbed or proble		
7.				Definitions of Vegetation Strata:		
8.				Tree Woody plants 2 in (7.6 cm) or	moro in	
9.				Tree – Woody plants 3 in. (7.6 cm) or diameter at breast height (DBH), rega		
10				Sapling/shrub – Woody plants less the	han 3 in DBH	
11	_			and greater than or equal to 3.28 ft (1		
12				Herb – All herbaceous (non-woody) p	lants regardless	
	70	=Total Cover		of size, and woody plants less than 3.		
Woody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines great	ter than 3 28 ft in	
1. Celastrus orbiculatus	10	Yes	FACU	height.	er triair 5.20 it iir	
2.						
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
	10	=Total Cover				
Remarks: (Include photo numbers here or on a sep		•		1		

SOIL Sampling Point P5-D Wet

Depth	Matrix	to the de	-	x Featur		ator or co	omirm the absence o	indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 2/1	100					Mucky Sand		
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	<u>m</u>	Loamy/Clayey	Prominent redox concentrations	
			10YR 2/1	20	С	m		Faint redox concentrations	
¹Type: C=C	oncentration, D=Depl	etion RN	######################################	 2eM=2N	ked Sand		<sup>2</sup> l ocation: F	PL=Pore Lining, M=Matrix.	
Hydric Soil		Cuon, ru	n-reduced Matrix, N	IO-IVIGS	ikcu Gark	J Clailis.		for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface (	S7)			2 cm M	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	oipedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,	Coast Prairie Redox (A16) (LRR K, L, R)		
Black Histic (A3) MLRA 149B)								ucky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Thin Dark Surf					ue Below Surface (S8) (LRR K, L)	
	d Layers (A5)	(0.44)	High Chroma S					ark Surface (S9) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	e (A11)	Loamy Mucky	inganese Masses (F12) (LRR K, L, R)					
	podic (A17)		Loamy Gleyed X Depleted Matri		,F2)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> ) rent Material (F21) <b>(outside MLRA 145</b>	
	A 144A, 145, 149B)		X Redox Dark Su		-6)			nallow Dark Surface (F22)	
	Mucky Mineral (S1)		Depleted Dark					Explain in Remarks)	
	Gleyed Matrix (S4)		Redox Depress					- · · · · · · · · · · · · · · · · · · ·	
	Redox (S5)		Marl (F10) ( <b>LR</b>	•	,		<sup>3</sup> Indicate	ors of hydrophytic vegetation and	
	Matrix (S6)		Red Parent Ma		21) <b>(MLF</b>	RA 145)		nd hydrology must be present,	
			<u></u>				unles	s disturbed or problematic.	
	Layer (if observed):								
Type:									
Depth (ii	nches):						Hydric Soil Prese	ent? Yes X No	
Remarks:									



Wetland P5-D - View facing east



Wetland P5-D - Soils

SITE PHOTOGRAPHS

Segment 8 – Package 5A

## 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: Guilder	land/Albany	Sampling Date: 7/27/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P5-D Upl		
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): concave	Slope %: 15		
Subregion (LRR or MLRA): LRR R	Lat: 42 43 29"N	•	-73 57 41"W	Datum: WGS84		
Soil Map Unit Name: ScB - Scio silt loam, 25			NWI classification:			
		Vac. v	<del></del>	lain in Domarka )		
Are climatic / hydrologic conditions on the site	· ·	Yes x		explain in Remarks.)		
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese 			
Are Vegetation, Soil, or Hydrol			d, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea			
Hydric Soil Present?	Yes X No	within a Wetland		No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:			
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Deciduous forest.						
HYDROLOGY						
Wetland Hydrology Indicators:				minimum of two required)		
Primary Indicators (minimum of one is require			Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns			
— High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water			
Water Marks (B1)	Hydrogen Sulfide Odor (C	· ·	Crayfish Burrows (0			
Sediment Deposits (B2)	Oxidized Rhizospheres of			on Aerial Imagery (C9)		
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in		Stunted or Stressed Geomorphic Position			
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Golla (Go)	Shallow Aquitard (			
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic R			
Sparsely Vegetated Concave Surface (B	· <del></del>	,	FAC-Neutral Test (	` '		
Field Observations:		I		- /		
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes NoX_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
<u> </u>						
Remarks:						

<b>EGETATION</b> – Use scientific names of pla				Sampling Point: P5-D Upl			
<u>Free Stratum</u> (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
. Robinia pseudoacacia	50	Yes	FACU	Number of Dominant Species			
2. Prunus serotina	15	No	FACU	That Are OBL, FACW, or FAC: 2 (A)			
3. Acer negundo	10	No	FAC	Total Number of Dominant			
Rhamnus cathartica	10	No	FAC	Species Across All Strata: 6 (B)			
5				Percent of Dominant Species			
5.				That Are OBL, FACW, or FAC: 33.3% (A/E			
7	-			Prevalence Index worksheet:			
	85	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0			
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			
l				UPL species 2 x 5 = 10			
5.				Column Totals: 211 (A) 664 (E			
S.				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%			
. 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 supporting			
3. Ageratina altissima	5	No	FACU	data in Remarks or on a separate sheet)			
I. Campanula rapunculoides	2	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Rosa multiflora	2	No	FACU	<del>-</del>			
S. 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:			
3.				Tree – Woody plants 3 in. (7.6 cm) or more in			
9.				diameter at breast height (DBH), regardless of height			
0				Sapling/shrub – Woody plants less than 3 in. DBH			
1	-			and greater than or equal to 3.28 ft (1 m) tall.			
2				<b>Herb</b> – All herbaceous (non-woody) plants, regardles			
	96	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft i			
Celastrus orbiculatus	10	Yes	FACU	height.			
2.							
3.				Hydrophytic Vegetation			
l.				Present? Yes No X			
	10	=Total Cover					
				1			

SOIL Sampling Point P5-D Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		<b>ument th</b> x Featur		ator or co	onfirm the absence of	f indicator	rs.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-8	10YR 3/2	95	10YR 5/4	5	С	m	Loamy/Clayey	Distin	ct redox conc	entrations
8-14	10YR 5/4	100					Loamy/Clayey			
							·			
1			A. De desert Matrice N	40. 14			21 tion - D	I. D I in	. i	
Hydric Soil I		etion, Ri	/I=Reduced Matrix, M	IS=Masi	ked Sand	d Grains.			ning, M=Matrix	
Histosol			Dark Surface (	S7)					LRR K, L, ML	
	oipedon (A2)		Polyvalue Belo	,	ce (S8) (	LRR R.			x (A16) ( <b>LRR</b>	•
Black His			MLRA 149B		( - / (	,			or Peat (S3) ( <b>L</b>	•
Hydroge	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	149B) Polyvalu	e Below Su	urface (S8) ( <b>L</b>	RR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	311) ( <b>LR</b> I	R K, L)	Thin Dar	k Surface	(S9) ( <b>LRR K</b> ,	L)
	Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) ( <b>LR</b>	RK, L)	Iron-Man	nganese Ma	asses (F12) (	LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		F2)					(MLRA 149B)
	oodic (A17)		Depleted Matrix		.0)					ide MLRA 145)
	A 144A, 145, 149B)		X Redox Dark Su Depleted Dark		-			allow Dark xplain in R	Surface (F22	)
	lucky Mineral (S1) leyed Matrix (S4)		Redox Depress				Other (E.	хріані ін К	emarks)	
	edox (S5)		Marl (F10) (LR		3)		<sup>3</sup> Indicato	rs of hydro	ophytic vegeta	tion and
	Matrix (S6)		Red Parent Ma		21) <b>(ML</b> I	RA 145)		-	y must be pre	
							unless	disturbed	or problemati	C.
Restrictive L	ayer (if observed):									
Type:	roc	k								
Depth (ir	nches):	14					Hydric Soil Preser	nt?	Yes X	No
Remarks:							•			



**Upland P5-D - View facing north** 



**Upland P5-D - Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

## 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: Guilder	land/Albany	Sampling Date: 7/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-E Wet
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	ex. none): concave	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 42 43 22"N		-73 57 42"W	' Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 31				<del></del>
Are climatic / hydrologic conditions on the site		Voc. v	<del></del>	
, ,	•	Yes x	<del></del> `	explain in Remarks.)
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: near flag	P5-E-1
Remarks: (Explain alternative procedures he Red maple hardwood swamp.	ere or in a separate report.)			
Tred maple nardwood swamp.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	x Water-Stained Leaves (B	9)	Drainage Patterns (	·
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
x Sediment Deposits (B2)	Oxidized Rhizospheres or	• , ,		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	· ·
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	x Geomorphic Position	
Inundation Visible on Aerial Imagery (B7)		re)	Shallow Aquitard (D Microtopographic R	•
x Sparsely Vegetated Concave Surface (B.	· <del></del> · · · ·	.5)	X FAC-Neutral Test (I	, ,
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

<b>/EGETATION</b> – Use scientific names of pla	nis.			Sampling Point:	P5-E Wet		
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Populus deltoides	70	Yes	FAC	Number of Dominant Species			
2. Fraxinus pennsylvanica	20	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					83.3% (A/B)		
7				Prevalence Index worksheet:			
	90	=Total Cover		Total % Cover of: Me	ultiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =	0		
1. Cornus amomum	40	Yes	FACW	FACW species110 x 2 =	220		
2. Fraxinus pennsylvanica	10	No	FACW	FAC species90	270		
3. Rhamnus cathartica	10	No	<u>FAC</u>	FACU species5 x 4 =	20		
4. Ilex verticillata	10	No	FACW	UPL species 0 x 5 =	0		
5.				Column Totals: 205 (A)	510 (B)		
6.				Prevalence Index = B/A =	2.49		
7.				Hydrophytic Vegetation Indicators:			
	70	=Total Cover		1 - Rapid Test for Hydrophytic Ve	egetation		
Herb Stratum (Plot size:5')		,		X 2 - Dominance Test is >50%			
1. Cornus amomum	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Ilex verticillata	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Fraxinus pennsylvanica	5	No	FACW	data in Remarks or on a separ	ate sheet)		
4. Toxicodendron radicans	5	No	FAC	Problematic Hydrophytic Vegetat	ion <sup>1</sup> (Explain)		
5				<sup>1</sup> Indicators of hydric soil and wetland	hydrology must		
6.				be present, unless disturbed or proble			
7.				Definitions of Vegetation Strata:			
8				Tree – Woody plants 3 in. (7.6 cm) or	r more in		
9.				diameter at breast height (DBH), rega			
10.				Sapling/shrub – Woody plants less t	than 3 in DRH		
11.				and greater than or equal to 3.28 ft (1			
12.		·		Harb All barbasagus (non woody) r	elente regardices		
	35	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) p of size, and woody plants less than 3.			
Woody Vine Stratum (Plot size: 30' )		•					
Toxicodendron radicans	5	Yes	FAC	<b>Woody vines</b> – All woody vines great height.	ter than 3.28 π in		
2. Celastrus orbiculatus	5	Yes	FACU				
3.				Hydrophytic			
4.				Vegetation Present? Yes X No	ı		
· -	10	=Total Cover		1100mi			
Remarks: (Include photo numbers here or on a separ		-					

SOIL Sampling Point P5-E Wet

Depth	Matrix	0/		ox Featur		1 2	<b>-</b> .	5
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/1	80	7.5YR 4/4		<u> </u>	PL/M	Loamy/Clayey	Prominent redox concentrations
6-12	10YR 3/1	90	10YR 6/6	10			Loamy/Clayey	Prominent redox concentrations
		_						
		<u> </u>						
1Type: C=C	oncentration, D=Deple	—— etion RM	 I=Reduced Matrix	MS=Mas	—— ked San	d Grains	2l ocation:	
Hydric Soil  Histosol Histic E Black H Hydroge Stratifiee Deplete Thick Da Mesic S (MLF Sandy N Sandy C Sandy F Stripped	Indicators:		Dark Surface Polyvalue Bel MLRA 149I Thin Dark Sur High Chroma Loamy Mucky Loamy Gleyer Depleted Mati X Redox Dark S Depleted Darl x Redox Depres Marl (F10) (LI Red Parent M	(S7) ow Surfa B) face (S9 Sands (S) Mineral d Matrix (F3) Gurface (F Surface (F Sissions (F RR K, L)	ce (S8) ( ) (LRR R S11) (LR (F1) (LR F2) F6) : (F7) 8)	LRR R, , MLRA <sup>(</sup> R K, L) R K, L)	Indicators 2 cm M Coast F 5 cm M Polyval Thin Da Iron-Ma Piedmo Red Pa Very Sh Other (i	for Problematic Hydric Soils <sup>3</sup> : luck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) lucky Peat or Peat (S3) (LRR K, L, R) lue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B) arent Material (F21) (outside MLRA 145 hallow Dark Surface (F22) Explain in Remarks) tors of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic.
Depth (i	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:								



Wetland P5-E - View facing north



Wetland P5-E - Soils

Segment 8 – Package 5A

SITE PHOTOGRAPHS

## 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: Guilder	land/Albany	Sampling Date: 7/27/22				
Applicant/Owner: TDI			State: NY	Sampling Point: P5-E Upl				
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>				
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	x, none): convex	Slope %: 5				
Subregion (LRR or MLRA): LRR R	Lat: 42 43 22"N	•	-73 57 42"W	Datum: WGS84				
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:					
Are climatic / hydrologic conditions on the site		Vec v		explain in Remarks.)				
, ,	,,	Yes x	<del></del> ` '	,				
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese 					
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	•				
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.				
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled A	rea	1				
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X				
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID: near flag	ј Р5-Е-1				
Remarks: (Explain alternative procedures he	ere or in a separate report.)							
Deciduous forest.								
LIVEROL COV								
HYDROLOGY								
Wetland Hydrology Indicators:				minimum of two required)				
Primary Indicators (minimum of one is require			Surface Soil Cracks					
Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (					
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16) Dry-Season Water Table (C2)					
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)	24)						
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C Oxidized Rhizospheres or	· ·	Crayfish Burrows (C	on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	=				
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '	Geomorphic Position					
Iron Deposits (B5)	Thin Muck Surface (C7)	Tillou Gollo (GG)	Shallow Aquitard (E					
Inundation Visible on Aerial Imagery (B7		(s)	<del></del>					
Sparsely Vegetated Concave Surface (B	· <del></del>	,	FAC-Neutral Test (	` '				
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):		d Hydrology Present?	Yes No X				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:					
Remarks:								

<b>/EGETATION</b> – Use scientific names of pla	Sampling Point:	P5-E Upl					
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Rhamnus cathartica	20	Yes	FAC	Number of Dominant Species			
2. Quercus rubra	20	Yes	FACU	That Are OBL, FACW, or FAC:	5 (A)		
3. Populus tremuloides	10	Yes	FACU	Total Number of Dominant			
4. Prunus serotina	10	Yes	FACU	Species Across All Strata:	14 (B)		
5. Acer rubrum	10	Yes	FAC	Percent of Dominant Species			
6. Pinus strobus	10	Yes	FACU	·	35.7% (A/B)		
7.				Prevalence Index worksheet:			
	80	=Total Cover		Total % Cover of: Mu	ultiply by:		
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 x 1 =	0		
1. Rhamnus cathartica	30	Yes	FAC	FACW species 10 x 2 =	20		
2. Lonicera tatarica	20	Yes	FACU	FAC species 80 x 3 =	240		
3. Fraxinus pennsylvanica	10	No	FACW	FACU species 150 x 4 =	600		
4.				UPL species 0 x 5 =	0		
5.				Column Totals: 240 (A)	860 (B)		
6.				Prevalence Index = B/A =	3.58		
7.				Hydrophytic Vegetation Indicators:			
	60	=Total Cover		1 - Rapid Test for Hydrophytic Ve			
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%			
1. Parthenocissus quinquefolia	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Toxicodendron radicans	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Ageratina altissima	15	Yes	FACU	data in Remarks or on a separ	ate sheet)		
4. Circaea canadensis	15	Yes	FACU	Problematic Hydrophytic Vegetati	ion <sup>1</sup> (Explain)		
5. Rosa multiflora 6.	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland l be present, unless disturbed or proble			
7.				Definitions of Vegetation Strata:			
8.				Tree – Woody plants 3 in. (7.6 cm) or	moro in		
9.				diameter at breast height (DBH), rega			
10.				Sapling/shrub – Woody plants less t	han 3 in DRU		
11.				and greater than or equal to 3.28 ft (1			
12.				<b>Herb</b> – All herbaceous (non-woody) p	lanta ragardiasa		
	90	=Total Cover		of size, and woody plants less than 3.	, 0		
Woody Vine Stratum (Plot size: 30')		-		Woody vines – All woody vines great	tor than 2 20 ft in		
1. Toxicodendron radicans	5	Yes	FAC	height.	er than 3.20 it in		
2. Celastrus orbiculatus	5	Yes	FACU				
3.				Hydrophytic			
4.				Vegetation Present? Yes No	Х		
	10	=Total Cover					
Remarks: (Include photo numbers here or on a sepa	rate sheet.)	_		1			

SOIL Sampling Point P5-E Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		u <mark>ment th</mark> x Feature		ator or co	onfirm the absence of	indicator	s.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	is.
0-6	10YR 3/3	100			<u>- 771 </u>		Loamy/Clayey			<del></del>
6 17	10VD 6/2	100								
6-17	10YR 6/3	100					Loamy/Clayey			
	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL			
Hydric Soil I							Indicators fo		-	
— Histosol	` '		Dark Surface (		(00) (				LRR K, L, M	•
—— HISTIC EP Black His	ipedon (A2)		Polyvalue Belo		ce (58) (	LKK K,			x (A16) ( <b>LRI</b> r Post (S3)	K K, L, K) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	(I RR R	MI RA 1		-	urface (S8) (	
	Layers (A5)		High Chroma S		-				(S9) ( <b>LRR K</b>	•
	Below Dark Surface	(A11)	Loamy Mucky	-						(LRR K, L, R)
	rk Surface (A12)	` ,	Loamy Gleyed			,				) (MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matri	x (F3)			Red Pare	nt Materia	ıl (F21) <b>(out</b> :	side MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su	-	-				Surface (F2	2)
	ucky Mineral (S1)		Depleted Dark				Other (Ex	plain in Re	emarks)	
	leyed Matrix (S4)		Redox Depress		3)		3, ,, ,			
	edox (S5) Matrix (S6)		Marl (F10) (LR Red Parent Ma		24) /MI F	3A 44E)		-	phytic veget	
Suipped	Matrix (30)		Red Falent Ma	ilenai (F.	21) (IVILI	(A 145)		-	y must be problema	
Restrictive L	.ayer (if observed):						unicos	alotarbea	or problema	10.
Type:	<b>,</b>									
Depth (in	iches):						Hydric Soil Present	t?	Yes	No X
Remarks:							.,			
Remarks.										



**Upland P5-E - View facing west** 



**Upland P5-E - Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

## 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 Wet					
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): depression Loca	al relief (concave, convex, none): concave	Slope %: 5					
Subregion (LRR or MLRA): LRR R Lat: 42 43 24"N	Long: -73 57 40"W	 Datum: WGS84					
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, e	explain in Remarks.)					
Are Vegetation, Soil, or Hydrologysignificantly distu	<del></del> ,	•					
Are Vegetation , Soil , or Hydrology naturally problem							
SUMMARY OF FINDINGS – Attach site map showing sai		·					
	T	,					
Hydrophytic Vegetation Present?  Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X	No					
Hydric Soil Present? Yes X No  Wetland Hydrology Present? Yes X No	within a Wetland? Yes X  If yes, optional Wetland Site ID: near flag	<b>No</b> P5-K-2					
Remarks: (Explain alternative procedures here or in a separate report.)	ii yee, optional wedana one ib.	10112					
Common reed marsh.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (m	inimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks						
Surface Water (A1) Water-Stained Leaves	(B9)Drainage Patterns (I	310)					
High Water Table (A2) Aquatic Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A3)Marl Deposits (B15)	Dry-Season Water 1	·					
Water Marks (B1) Hydrogen Sulfide Odor							
Sediment Deposits (B2) Oxidized Rhizospheres	· / <del></del>	Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced		· ·					
Algal Mat or Crust (B4)Recent Iron Reduction		` '					
Iron Deposits (B5) Thin Muck Surface (C7	<u>—</u>	·					
Inundation Visible on Aerial Imagery (B7)Other (Explain in Rema							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D	)5) 					
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		Waa W Na					
	Wetland Hydrology Present?	YesX_ No					
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections) if available:						
Describe Necorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), il available.						
Remarks:							

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

SOIL Sampling Point P5-K Wet

Depth	Matrix	, tile de	-	ox Featur			onfirm the absence o	i illulcators.)	1	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	3
0-1	10YR 2/1	100					Loamy/Clayey			
1-4	10YR 3/1	80	10YR 4/6	20	С	pl	Loamy/Clayey	Prominent	t redox cor	ncentrations
4-16	10YR 4/2	70	10YR 5/8	30	C	m	Loamy/Clayey	Prominent	t redox cor	ncentrations
				· —						
				· ——						
				. —						
	oncentration, D=Deple	tion, RN	<u>//=Reduced Matrix, I</u>	MS=Masl	ked San	d Grains.		L=Pore Lining		
Hydric Soil I Histosol			Dark Surface	(97)				or Problemat	-	
	pipedon (A2)		Polyvalue Belo	, ,	ce (S8) (	LRR R.	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )  Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )			
Black Hi			MLRA 149E		•• (••) (			ucky Peat or P		•
	n Sulfide (A4)		Thin Dark Sur	face (S9)	(LRR R	, MLRA 1		ie Below Surfa		•
Stratified	Layers (A5)		High Chroma	Sands (S	511) ( <b>LR</b> I	R K, L)	Thin Da	rk Surface (S9	9) ( <b>LRR K</b> ,	, <b>L</b> )
X Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	RK, L)	Iron-Mai	nganese Mass	ses (F12) (	(LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	l Matrix (	F2)		Piedmor	nt Floodplain S	Soils (F19)	(MLRA 149B)
Mesic S	podic (A17)		X Depleted Matr	ix (F3)			Red Par	ent Material (I	F21) <b>(outs</b>	side MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark S	urface (F	6)		Very Sh	allow Dark Su	ırface (F22	2)
	lucky Mineral (S1)		Depleted Dark		, ,		Other (E	xplain in Rem	ıarks)	
	leyed Matrix (S4)		Redox Depres		8)		2			
	ledox (S5)		Marl (F10) ( <b>LF</b>				<sup>3</sup> Indicators of hydrophytic vegetation and			
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(ML</b> I	RA 145)	wetland hydrology must be present, unless disturbed or problematic.			
Restrictive I	Layer (if observed):						<u> </u>			
Type:										
Depth (ir	nches):						Hydric Soil Prese	nt? Y	es X	No
Remarks:										



Wetland P5-K - View facing northwest



Wetland P5-K - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

## 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: Guilder	land/Albany	Sampling Date: 7/29/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P5-K Upl			
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>			
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): convex	Slope %: 5			
Subregion (LRR or MLRA): LRR R	Lat: 42 43 24"N	•	-73 57 39"W	Datum: WGS84			
Soil Map Unit Name: ScB - Scio silt loam, 3		5	NWI classification:				
		Voc. v					
Are climatic / hydrologic conditions on the site	· ·	Yes x		explain in Remarks.)			
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese				
Are Vegetation, Soil, or Hydrol			d, explain any answers in	,			
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	P5-K-2			
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
Deciduous forest.							
HYDROLOGY							
Wetland Hydrology Indicators:				minimum of two required)			
Primary Indicators (minimum of one is require			Surface Soil Cracks				
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	24	Dry-Season Water				
Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C	·			
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed				
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position				
Inundation Visible on Aerial Imagery (B7		(c)	Shallow Aquitard (E Microtopographic R				
Sparsely Vegetated Concave Surface (B	· <del></del>	.S)	FAC-Neutral Test (	, ,			
Field Observations:		<del></del>					
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No X			
(includes capillary fringe)	NO X Dopar (	—	u figurology i rocons.	1651.0			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:				
, 5 -	, , ,	,					
Remarks:							

	Absolute	Dominant	Indicator				
ree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
. Acer rubrum	80	Yes	FAC_	Number of Dominant Species			
Pinus strobus	10	No	<u>FACU</u>	That Are OBL, FACW, or FAC: 2 (A)			
•				Total Number of Dominant			
·				Species Across All Strata: 7 (B)			
·				Percent of Dominant Species			
·		<del>-</del>		That Are OBL, FACW, or FAC: 28.6% (A/B			
·	-			Prevalence Index worksheet:			
	90	=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0			
Prunus serotina	10	Yes	<u>FACU</u>	FACW species 0 x 2 = 0			
Lonicera morrowii	10	Yes	FACU	FAC species150 x 3 =450			
Fagus grandifolia	5	Yes	FACU	FACU species80 x 4 =320			
·				UPL species0 x 5 =0			
				Column Totals: 230 (A) 770 (B			
				Prevalence Index = B/A = 3.35			
				Hydrophytic Vegetation Indicators:			
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size: 5' )				2 - Dominance Test is >50%			
. Toxicodendron radicans	70	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Parthenocissus quinquefolia	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Fraxinus americana	5	No	FACU	data in Remarks or on a separate sheet)			
Prunus serotina	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Lonicera morrowii	5	No	FACU	·   <del></del>			
. Rosa multiflora	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
		<u> </u>		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height			
0		·					
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
2.							
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size: 30' )		-					
. Celastrus orbiculatus	10	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
Parthenocissus quinquefolia	5	Yes	FACU	neight.			
. rathenocissus quinquerona		165	TACO	Hydrophytic			
				Vegetation No. V			
·				Present?			
	15	=Total Cover					

SOIL Sampling Point P5-K Upl

Depth	ription: (Describe t Matrix	to the de		u <b>ment tr</b> x Featur		ator or co	onfirm the absence o	f indicato	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remar	rks
0-3	10YR 4/2	100					Loamy/Clayey			
3-16	10YR 5/6	100					Loamy/Clayey			
<u> </u>	1011( 3/0	100					Loamy/olaycy			
¹Type: C=Co	oncentration, D=Depl	etion RN			Led Sand		<sup>2</sup> Location: P	I -Dore I	ining M-Ma	ıtriv
Hydric Soil I		Ction, rai	ii–i teddeed iviatrix, iv	IO-IVIASI	ica Garic	d Oranis.	Indicators fo			
Histosol			Dark Surface (	S7)						MLRA 149B)
	pipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,			ox (A16) ( <b>LF</b>	•
Black His	stic (A3)		MLRA 149B	)			5 cm Mu	icky Peat	or Peat (S3)	) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa						Surface (S8)	
	Layers (A5)		High Chroma S						e (S9) ( <b>LRR</b>	•
	Below Dark Surface	e (A11)	Loamy Mucky			RK,L)		-	-	2) (LRR K, L, R)
	ark Surface (A12) codic (A17)		Loamy Gleyed Depleted Matri		F2)				-	(9) (MLRA 149B) Itside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		-6)				k Surface (F.	
	lucky Mineral (S1)		Depleted Dark		-				Remarks)	,
Sandy G	leyed Matrix (S4)		Redox Depress				<u> </u>		,	
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	.R K, L)			<sup>3</sup> Indicato	ors of hydr	rophytic vege	etation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)		-	gy must be	
<b>5</b>	//s 1 B						unless	disturbe	d or problem	atic.
Type:	_ayer (if observed):									
-	I X						Libertain Coll Bases	- 40	<b>V</b>	NI- V
	nches):						Hydric Soil Presei	nt?	Yes	NoX
Remarks:										



**Upland P5-K - View facing south** 



**Upland P5-K - Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

## 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: Guilder	land/Albany	Sampling Date: 7/29/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P5-L Wet POW			
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	x, none): concave	Slope %: 2			
Subregion (LRR or MLRA): LRR R	Lat: 42 43 19"N		-73 57 38"W	 Datum: WGS84			
Soil Map Unit Name: HuE - Hudson silt loam			NWI classification:				
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)			
				,			
Are Vegetation, Soil, or Hydrol	<del></del>		nal Circumstances" prese				
Are Vegetation, Soil, or Hydrol			d, explain any answers in	·			
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea				
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: near flag	P5-L-9			
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
Seasonally inundated pond.							
HYDROLOGY							
Wetland Hydrology Indicators:				ninimum of two required)			
Primary Indicators (minimum of one is require		2)	Surface Soil Cracks				
X Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (	·			
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) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C Oxidized Rhizospheres on	· ·	Crayfish Burrows (C	n Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed				
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '	x Geomorphic Position	` '			
Iron Deposits (B5)	x Thin Muck Surface (C7)	Tilled Golis (Go)	Shallow Aquitard (D				
Inundation Visible on Aerial Imagery (B7)		e)	Microtopographic R	•			
x Sparsely Vegetated Concave Surface (Bi		3)	X FAC-Neutral Test (I	` '			
Field Observations:			<u></u>				
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):		d Hydrology Present?	Yes X No			
(includes capillary fringe)			,				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:				
Remarks:							

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:1 (B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species99 x 1 =99
1.				FACW species1 x 2 =2
2.				FAC species0 x 3 =0
3.				FACU species0 x 4 =0
4.				UPL species 0 x 5 = 0
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>
Bidens frondosa	1	No No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3			17.077	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul><li>5.</li><li>6.</li></ul>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH 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. 4.				Vegetation Present? Yes X No
T		=Total Cover		11636Ht. 163 <u>X</u> HC
Remarks: (Include photo numbers here or on a separ	rata aboat \			
Remarks. (include prioto numbers here of on a separ	ate sneet.)			

Sampling Point: P5-L Wet POW

SOIL Sampling Point P5-L Wet POW

		o the de				itor or co	onfirm the absence of	f indicators.)	
Depth	Matrix	0/		x Featur		1 2	T		1
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	KS
-									
							<del></del>		
-									
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion RN	/=Reduced Matrix N	/S=Mas	ked Sand	 d Grains	<sup>2</sup> I ocation: Pl	L=Pore Lining, M=Ma	trix
Hydric Soil I		,				. 0		or Problematic Hydri	
Histosol			Dark Surface (	(97)				ick (A10) ( <b>LRR K, L, I</b>	
					oo (CO) (	DD D			•
	ipedon (A2)		Polyvalue Belo		ce (So) (	LKK K,		rairie Redox (A16) ( <b>LF</b>	•
Black His			MLRA 149B	•				icky Peat or Peat (S3)	
	n Sulfide (A4)		Thin Dark Surf					e Below Surface (S8)	
	Layers (A5)		High Chroma S					k Surface (S9) ( <b>LRR</b>	
	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	R K, L)	Iron-Man	nganese Masses (F12	) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmon	nt Floodplain Soils (F1	9) ( <b>MLRA 149B</b> )
Mesic Sp	odic (A17)		Depleted Matri	ix (F3)			Red Pare	ent Material (F21) <b>(o</b> u	tside MLRA 145
(MLR	A 144A, 145, 149B)		Redox Dark Su	urface (F	<del>-</del> 6)		Very Sha	allow Dark Surface (F	22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	xplain in Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F	8)		<del></del>		
	edox (S5)		Marl (F10) ( <b>LR</b>		,		<sup>3</sup> Indicato	rs of hydrophytic vege	etation and
	Matrix (S6)		Red Parent Ma		21) <b>(MI F</b>	RA 145)		d hydrology must be	
	Matrix (00)			atoriai (i	, ( <b>_</b> .	U ( 1 .U)		disturbed or problem	
Postrictivo I	.ayer (if observed):						unicoo	distarbed of problem	atio.
Type: _									
Depth (in	ches):						Hydric Soil Presen	nt? Yes	NoX
Remarks:									
	t soils due to standin	a wate a	and dominance by F	ACW/OE	BL specie	s.			
		J	,		•				



Wetland P5-L - View facing east. PEM in foreground, POW in background.



Wetland P5-L - Soils

**SITE PHOTOGRAPHS** 

Segment 8 – Package 5A

## 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	ity/County: Guilderl	and/Albany	Sampling Date: 7/29/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P5-L Wet PEM		
Investigator(s): C. Einstein & J. Greaves		Section, Tov	vnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): hillslope	Local relie	ef (concave, conve	x, none): concave	Slope %: 10		
Subregion (LRR or MLRA): LRR R	Lat: 42 43 19"N	•	-73 57 39"W	Datum: WGS84		
Soil Map Unit Name: HuE - Hudson silt loam, 2			NWI classification:	<del></del>		
Are climatic / hydrologic conditions on the site ty			<del></del>			
, ,	,,	Yes x		explain in Remarks.)		
Are Vegetation, Soil, or Hydrolog			nal Circumstances" prese	<del></del>		
Are Vegetation, Soil, or Hydrolog			l, explain any answers in	·		
SUMMARY OF FINDINGS – Attach si	ite map showing sampli	ing point locat	ions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present? Y	Yes X No I	Is the Sampled Ar	'ea	1		
Hydric Soil Present? Y		within a Wetland?		No		
Wetland Hydrology Present? Y	Yes X No I	If yes, optional We	tland Site ID: near flag	P5-L-9		
Shallow emergent marsh fringe to a seasonally	/ inundated shallow pond.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m			
Primary Indicators (minimum of one is required			Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (B9)					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
x Saturation (A3)	Marl Deposits (B15)		Dry-Season Water T			
Water Marks (B1) Sodiment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C	·		
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on L Presence of Reduced Iron (		Saturation Visible or Stunted or Stressed	n Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Til	` '	x Geomorphic Position	· ·		
Iron Deposits (B5)	Thin Muck Surface (C7)	illed colls (co)	Shallow Aquitard (D3			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	)	Microtopographic Re			
Sparsely Vegetated Concave Surface (B8)	<del></del>	,	X FAC-Neutral Test (D	` '		
Field Observations:				,		
Surface Water Present? Yes	No x Depth (inches):					
	No x Depth (inches):					
	No Depth (inches):	10 Wetland	d Hydrology Present?	YesX No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monit	toring well, aerial photos, previo	ous inspections), if a	available:			
Remarks:						

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:1(A)
3. 4.				Total Number of Dominant Species Across All Strata: 1 (B)
<ul><li>5.</li><li>6.</li></ul>				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:)				OBL species0 x 1 =0
1				FACW species 80 x 2 = 160
2				FAC species15 x 3 =45
3				FACU species0 x 4 =0
4				UPL species0 x 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%
1. Impatiens capensis	60	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Persicaria maculosa	15	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Stellaria longifolia	15	No	FACW	data in Remarks or on a separate sheet)
A The bonder de medicatole		No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		110	TACV	Troblematic riyurophytic vegetation (Explain)
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
				Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	95	=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.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet )			
Tremains. (include prioto numbers here of on a sepa	ale sileel.)			

Sampling Point: P5-L Wet PEM

SOIL Sampling Point: P5-L Wet PEM

Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	res Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
,			Color (moist)		Туре			Nemarks
0-8	10YR 2/1	100					Loamy/Clayey	
8-10	10YR 3/1	70	10YR 4/6	30	<u> </u>	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
10-16	10YR 3/1	55	10YR 5/6	45	<u> </u>	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
	oncentration, D=Depl	etion, RN	1=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I			Dark Surface (\$	27)				for Problematic Hydric Soils <sup>3</sup> : uck (A10) (LRR K, L, MLRA 149B)
— Histosol	(AT) pipedon (A2)		Polyvalue Belo	,	ce (S8) (	I RR R		Prairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B		00 (00) (	LIKIT IK,		ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa		) (LRR R	, MLRA 1		ue Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma S					ark Surface (S9) (LRR K, L)
	l Below Dark Surface	(A11)	Loamy Mucky I	-				inganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)	, ,	Loamy Gleyed			. ,		int Floodplain Soils (F19) (MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matrix	x (F3)			Red Pa	rent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		X Redox Dark Su	rface (F	<del>-</del> 6)		Very Sh	nallow Dark Surface (F22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Remarks)
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F	8)			
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicate	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) <b>(ML</b> F	RA 145)		nd hydrology must be present, s disturbed or problematic.
Restrictive L	_ayer (if observed):							o alotalization problemation
Type: _ Depth (ir	ochos):						Hydric Soil Prese	ent? Yes X No
Remarks:							nyunc son Frese	ent? Yes X No
Nomans.								



Wetland P5-L - View facing east. PEM in foreground, POW in background.



Wetland P5-L - Soils

**SITE PHOTOGRAPHS** 

Segment 8 – Package 5A

### 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: Guilder	land/Albany	Sampling Date: 7/29/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P5-L Upl		
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): hillslope	Local re	——— elief (concave, conve	ex. none): convex	Slope %: 40		
Subregion (LRR or MLRA): LRR R	Lat: 42 43 19"N	•	-73 57 39"W	Datum: WGS84		
Soil Map Unit Name: HuE - Hudson silt loam			NWI classification:			
·						
Are climatic / hydrologic conditions on the site		Yes x	`	explain in Remarks.)		
Are Vegetation, Soil, or Hydrol			nal Circumstances" pres	<del></del>		
Are Vegetation, Soil, or Hydrol	logy naturally problemate	tic? (If needed	d, explain any answers in	n Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, ir	mportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland		No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:			
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Deciduous forest.						
HYDROLOGY						
Wetland Hydrology Indicators:				minimum of two required)		
Primary Indicators (minimum of one is require			Surface Soil Crack			
Surface Water (A1)	Water-Stained Leaves (B	59)	Drainage Patterns			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	24)	Dry-Season Water	· ·		
Water Marks (B1)	Hydrogen Sulfide Odor (C					
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres or Presence of Reduced Iror		Stunted or Stresse	on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction in		Geomorphic Positi	· ·		
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Colls (Co)	Shallow Aquitard (			
Inundation Visible on Aerial Imagery (B7)						
Sparsely Vegetated Concave Surface (B	· <del></del>	.5)	FAC-Neutral Test	` '		
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):		d Hydrology Present?	Yes NoX_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
<u> </u>						
Remarks:						

' <b>EGETATION</b> – Use scientific names of μ	Sampling Point:	P5-L Upl					
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Fraxinus americana	30	Yes	FACU	Number of Dominant Species			
2. Malus	20	Yes		That Are OBL, FACW, or FAC:	2 (A)		
3. Prunus serotina	20	Yes	FACU	Total Number of Dominant			
4. Acer negundo	20	Yes	FAC	Species Across All Strata:	11 (B)		
5.				Percent of Dominant Species			
3.				That Are OBL, FACW, or FAC:	18.2% (A/B)		
7.				Prevalence Index worksheet:	<u> </u>		
	90	=Total Cover		Total % Cover of: M	ultiply 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	30	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 (B)		
<u> </u>				Prevalence Index = B/A =	3.73		
7.				Hydrophytic Vegetation Indicators			
	70	=Total Cover		1 - Rapid Test for Hydrophytic Ve			
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%	3		
1. Impatiens capensis	20	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Circaea canadensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Parthenocissus quinquefolia	15	Yes	FACU	data in Remarks or on a separate sheet)			
4. Alliaria petiolata	10	No	FACU	Problematic Hydrophytic Vegetat	tion <sup>1</sup> (Explain)		
5. Rosa multiflora	10	No	FACU	<u> </u>			
6. Rubus allegheniensis	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or proble			
7. Parathelypteris noveboracensis	- <del> </del>	No	FAC	Definitions of Vegetation Strata:	omano.		
3.							
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) o diameter at breast height (DBH), regard			
10.				Sapling/shrub – Woody plants less	than 2 in DPU		
11.				and greater than or equal to 3.28 ft (1			
12.				Hade All back are as for a sure de la			
	90	=Total Cover		Herb – All herbaceous (non-woody) pof size, and woody plants less than 3			
Woody Vine Stratum (Plot size: 30'	)	-					
1. Celastrus orbiculatus	., 5	Yes	FACU	<b>Woody vines</b> – All woody vines greatheight.	iter than 3.28 ft in		
2. Parthenocissus quinquefolia	5	Yes	FACU	g			
3.				Hydrophytic			
4.	_			Vegetation Present? Yes No	X		
	10	=Total Cover					
Remarks: (Include photo numbers here or on a se				1			

SOIL Sampling Point P5-L Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de	-	u <mark>ment th</mark> x Feature		ator or co	onfirm the absence of in	dicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	rks
0-1	10YR 2/1	100			<u></u>		Loamy/Clayey		
1-4	10YR 3/4	100					Loamy/Clayey		
4-16	10YR 5/6	100					Loamy/Clayey		
	10111 0/0	100					Loamy/olayey		
	oncentration, D=Depl	etion, RN	//≡Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.		ore Lining, M=Ma	
Hydric Soil I			Dauls Courfess /	(0.7)				roblematic Hydri	
Histosol	(A1) ipedon (A2)		Dark Surface ( Polyvalue Belo	•	ca (S8) (	I DD D		(A10) ( <b>LRR K, L, I</b> e Redox (A16) ( <b>LF</b>	=
Black His			MLRA 149B		GE (GO) (	LIXIX IX,		Peat or Peat (S3)	
	n Sulfide (A4)		Thin Dark Surf	,	(LRR R	. MLRA 1		elow Surface (S8)	
	Layers (A5)		High Chroma S		-			urface (S9) ( <b>LRR</b>	
	Below Dark Surface	(A11)	Loamy Mucky					nese Masses (F12	•
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont FI	oodplain Soils (F1	9) ( <b>MLRA 149B</b> )
Mesic Sp	oodic (A17)		Depleted Matri	x (F3)			Red Parent	Material (F21) <b>(o</b> u	ıtside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Shallov	w Dark Surface (F	22)
	ucky Mineral (S1)		Depleted Dark				Other (Expla	ain in Remarks)	
	leyed Matrix (S4)		Redox Depress	•	3)		2		
	edox (S5)		Marl (F10) ( <b>LR</b>					of hydrophytic vego	
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) <b>(ML</b> F	RA 145)		ydrology must be turbed or problem	
Restrictive L	ayer (if observed):						unicas dia	turbed of problem	iauo.
Type:	,								
Depth (ir	nches):						Hydric Soil Present?	Yes	No _ X _
Remarks:									



Upland P5-L - View facing west.



**Upland P5-L - Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

### 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: Guilder	land/Albany	Sampling Date: 7/27/22	
Applicant/Owner: TDI			State: NY	Sampling Point: P5-F Wet	
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>	
Landform (hillside, terrace, etc.): lake	Local re	elief (concave, conve	ex, none): concave	Slope %: 10	
Subregion (LRR or MLRA): LRR R	Lat: 42 43 18"N		-73 57 42"W	Datum: WGS84	
Soil Map Unit Name: HuE - Hudson silt loam			NWI classification:	<del></del>	
·		Voc. v		-	
Are climatic / hydrologic conditions on the site		Yes x	<del></del>	explain in Remarks.)	
Are Vegetation, Soil, or Hydro			nal Circumstances" prese	<del></del>	
Are Vegetation, Soil, or Hydro			d, explain any answers in	•	
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea		
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X	
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:		
PEM fringe on edge of Watervliet Reservoir.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	(B6)	
X Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (I	· ·	
X High Water Table (A2)	X Aquatic Fauna (B13)		Moss Trim Lines (B16)		
X Saturation (A3)	Marl Deposits (B15)		X Dry-Season Water 1		
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	•	
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	· ·	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tillea Solis (Co)	X Geomorphic Position Shallow Aquitard (D		
X Inundation Visible on Aerial Imagery (B7		e)	Microtopographic Re	·	
Sparsely Vegetated Concave Surface (B	· ` · ·	5)	X FAC-Neutral Test (	` '	
Field Observations:	<u> </u>		<u></u>	30)	
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 Wetlan	d Hydrology Present?	Yes X No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:		
Remarks:					

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
I. Salix alba	40	Yes	FACW				
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
3.				Total Number of Dominant			
i				Species Across All Strata: 3 (B)			
j.				Percent of Dominant Species			
5.				That Are OBL, FACW, or FAC:100.0% (A/B			
·				Prevalence Index worksheet:			
	40	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species60 x 1 =60			
				FACW species 80 x 2 = 160			
				FAC species0 x 3 =0			
				FACU species 0 x 4 = 0			
i				UPL species 0 x 5 = 0			
i				Column Totals: 140 (A) 220 (B			
5.				Prevalence Index = B/A = 1.57			
				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size:5')				X 2 - Dominance Test is >50%			
. Typha latifolia	50	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Bidens frondosa	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Impatiens capensis	10	No	FACW	data in Remarks or on a separate sheet)			
Lemna minor	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
S				be present, unless disturbed or problematic.			
,				Definitions of Vegetation Strata:			
3.				Tree – Woody plants 3 in. (7.6 cm) or more in			
)				diameter at breast height (DBH), regardless of height			
0				Sapling/shrub – Woody plants less than 3 in. DBH			
1				and greater than or equal to 3.28 ft (1 m) tall.			
2	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size: 30' )		-					
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
				noight.			
				Hydrophytic			
		<u> </u>		Vegetation Present? Yes X No			
··		=Total Cover		11000m: 100 <u> </u>			
		- I otal Covel					

SOIL Sampling Point P5-F Wet

		the de				itor or co	onfirm the absence o	f indicator	s.)		
Depth	Matrix			x Featur		. 2	<b>-</b> .				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S	
							_				
¹Type: C=Co	ncentration, D=Deple	tion RM	=Reduced Matrix M	MS=Mas	ked Sand	Grains	<sup>2</sup> Location: F	I =Pore Lir	ning M=Mat	rix	
Hydric Soil II		,					Indicators f				
Histosol (			Dark Surface (	S7)					LRR K, L, M		B)
	pedon (A2)		Polyvalue Belo		ca (S8) (I	DD D			x (A16) ( <b>LR</b>		
					ce (30) (i	LKK K,					
Black His			MLRA 149B	•	/ LDD D	MI DA 4		-	or Peat (S3)	•	
	Sulfide (A4)		Thin Dark Surfa						urface (S8) (	-	-)
	Layers (A5)	(8.4.4)	— High Chroma S						(S9) (LRR K	-	,
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)			asses (F12)		
	k Surface (A12)		Loamy Gleyed		F2)				in Soils (F19		
	odic (A17)		Depleted Matri						al (F21) <b>(out</b>		RA 145)
	A 144A, 145, 149B)		Redox Dark Su						Surface (F2	:2)	
	ucky Mineral (S1)		Depleted Dark		` '		Other (E	xplain in R	emarks)		
Sandy GI	eyed Matrix (S4)		Redox Depress	sions (F	8)		_				
Sandy Re	edox (S5)		Marl (F10) ( <b>LR</b>	RK,L)			<sup>3</sup> Indicate	ors of hydro	ophytic vege	tation and	d
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetlar	nd hydrolog	y must be p	resent,	
							unless	s disturbed	or problema	atic.	
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Prese	nt?	Yes	No	x
							.,				
Remarks:	:			4 ODL /E	A C) A /	!					
Dia not collec	t soils due to standing	g water a	and predominance o	I OBL/F	ACW Spe	ecies.					



Wetland P5-F - View facing southwest



Wetland P5-F - Soils

**SITE PHOTOGRAPHS** 

Segment 8 – Package 5A

### 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: Guilder	land/Albany	Sampling Date: 7/27/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P5-F Upl		
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex, none): concave	Slope %: 35		
Subregion (LRR or MLRA): LRR R	Lat: 42 43 18"N	•	-73 57 42"W	Datum: WGS84		
Soil Map Unit Name: HuE - Hudson silt loam			NWI classification:			
		Vac v		lain in Damarka )		
Are climatic / hydrologic conditions on the site	· ·	Yes x	` ` `	explain in Remarks.)		
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese			
Are Vegetation, Soil, or Hydrol			d, explain any answers in			
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	P5-F-3		
Remarks: (Explain alternative procedures he Deciduous forest.	ere or in a separate report.)					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one is require			Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (B	19)	Drainage Patterns (	•		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	<del>-</del>	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C					
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	· ·		
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position			
Inundation Visible on Aerial Imagery (B7		Shallow Aquitard (D3)  Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B	· <del></del>	.5)	FAC-Neutral Test (I	` '		
Field Observations:	<del></del>					
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No X		
(includes capillary fringe)	• • • • •	<del></del>	j			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

<b>/EGETATION</b> – Use scientific names of pla	nts.			Sampling Point:	P5-F Upl		
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Robinia pseudoacacia	30	Yes	FACU	Number of Dominant Species			
2. Populus deltoides	20	Yes	FAC	That Are OBL, FACW, or FAC:	6 (A)		
3. Prunus serotina	20	Yes	FACU	Total Number of Dominant			
4. Ulmus americana	15	No	FACW	Species Across All Strata:	12 (B)		
5.				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC:	50.0% (A/B)		
7				Prevalence Index worksheet:			
	85	=Total Cover		Total % Cover of: M	ultiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 =	0		
1. Acer negundo	10	Yes	FAC	FACW species 50 x 2 =	100		
2. Rhamnus cathartica	10	Yes	FAC	FAC species80 x 3 =	240		
3. Lonicera tatarica	10	Yes	FACU	FACU species102 x 4 =	408		
4. Rubus allegheniensis	2	No	FACU	UPL species0 x 5 =	0		
5				Column Totals: 232 (A)	748(B)		
6				Prevalence Index = B/A =	3.22		
7.				Hydrophytic Vegetation Indicators:			
	32	=Total Cover		1 - Rapid Test for Hydrophytic Ve	getation		
Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%			
1. Impatiens capensis	35	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Urtica dioica	35	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Alliaria petiolata	25	Yes	FACU	data in Remarks or on a separate sheet)			
4. Rosa multiflora	5	No	FACU	Problematic Hydrophytic Vegetat	ion <sup>1</sup> (Explain)		
5 6.				<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or proble			
7.				Definitions of Vegetation Strata:			
8.					i		
9.				Tree – Woody plants 3 in. (7.6 cm) or diameter at breast height (DBH), regarder.			
10.				Sapling/shrub – Woody plants less t			
11.				and greater than or equal to 3.28 ft (1			
 12.				Hart All back as a configuration of the configurati			
	100	=Total Cover		Herb – All herbaceous (non-woody) p of size, and woody plants less than 3.			
		•					
1. Celastrus orbiculatus	5	Yes	FACU	Woody vines – All woody vines great height.	ter than 3.28 ft in		
2. Toxicodendron radicans	5	Yes	FAC				
3. Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic			
4.				Vegetation Present? Yes No	Χ		
	15	=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

SOIL Sampling Point P5-F Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		u <mark>ment th</mark> x Feature		ator or co	onfirm the absence of	indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	F	Remarks	
0-4	10YR 2/1	100			<u>- 771 </u>		Loamy/Clayey	<u> </u>		
4.16	10VD 6/2	100								
4-16	10YR 6/3	100					Sandy			
	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL			
Hydric Soil I							Indicators for		-	
— Histosol	` '		Dark Surface (		(00) (			k (A10) ( <b>LRR</b> l		•
Black His	ipedon (A2)		Polyvalue Belo		ce (58) (	LKK K,		iirie Redox (A1 ky Peat or Pea		*
	n Sulfide (A4)		Thin Dark Surf	,	(I RR R	MI RA 1		Below Surface		· ·
	Layers (A5)		High Chroma S		-			Surface (S9)		
	Below Dark Surface	(A11)	Loamy Mucky	-				ganese Masses		•
	rk Surface (A12)	` ,	Loamy Gleyed			,				(MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matri	x (F3)			Red Pare	nt Material (F2	1) (outsi	de MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su	-	-			low Dark Surfa		ı
	ucky Mineral (S1)		Depleted Dark				Other (Ex	plain in Remar	ks)	
	leyed Matrix (S4)		Redox Depress		3)		3, ,,	61 1 1 1		
	edox (S5) Matrix (S6)		Marl (F10) (LR Red Parent Ma		24) /MAL F	3A 44E)		s of hydrophyti	-	
Suipped	Matrix (30)		Red Falent Ma	ilenai (F.	21) (IVILI	(A 145)		l hydrology mu disturbed or pr		
Restrictive L	.ayer (if observed):						unic33 (	disturbed or pro	DDICITIALI	<i>-</i> .
Type:	<b>,</b>									
Depth (in	iches):						Hydric Soil Present	? Yes	•	No X
Remarks:							.,			
Remarks.										



**Upland P5-F - View facing east** 

SITE PHOTOGRAPHS

Segment 8 – Package 5A

### 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: Guilder	land/Albany	Sampling Date: 7/29/22		
Applicant/Owner: TDI			State: NY	Sampling Point: T Wet		
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	x, none): concave	Slope %: 2		
Subregion (LRR or MLRA): LRR R	 Lat:	Long:		Datum: WGS84		
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:			
Are climatic / hydrologic conditions on the site		Yes x	No (If no,	explain in Remarks.)		
			· —			
Are Vegetation, Soil, or Hydro			nal Circumstances" prese			
Are Vegetation, Soil, or Hydro			l, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No		
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: <u>near flag</u>	P5-M-7		
Remarks: (Explain alternative procedures he Shrub swamp.	e or in a separate report.)					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns (	•		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C					
Sediment Deposits (B2)	x Oxidized Rhizospheres or	• , ,		n Aerial Imagery (C9)		
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in		Stunted or Stressed x Geomorphic Position	· ·		
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Golla (Go)	Shallow Aquitard (D			
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic R	,		
Sparsely Vegetated Concave Surface (B	·— ` `	,	X FAC-Neutral Test (I	` '		
Field Observations:	·			,		
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes x	No Depth (inches):	12 Wetlan	d Hydrology Present?	Yes _ X _ No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

Absolute	Dominant	Indicator				
			Dominance Test worksheet:			
10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:6(A)			
			Total Number of Dominant Species Across All Strata: 8 (B)			
			Percent of Dominant Species That Are OBL, FACW, or FAC:75.0% (A/B)			
			Prevalence Index worksheet:			
10	=Total Cover		Total % Cover of: Multiply by:			
)			OBL species 0 x 1 = 0			
50	Yes	FACW	FACW species 130 x 2 = 260			
30	Yes	FACW	FAC species 25 x 3 = 75			
20	Yes	FACU	FACU species 55 x 4 = 220			
			UPL species 0 x 5 = 0			
. •			Column Totals: 210 (A) 555 (B)			
			Prevalence Index = B/A = 2.64			
			Hydrophytic Vegetation Indicators:			
100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
	-		X 2 - Dominance Test is >50%			
25	Yes	FAC	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
	-		4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
			data in Remarks or on a separate sheet)			
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	-		1 <del>.</del>			
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
			Definitions of Vegetation Strata:			
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
	<del></del>		and greater than or equal to 5.20 ft (1 m) tail.			
70	-Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
, <del>70</del>	- Total Cover		of size, and woody plants less than 5.20 it tall.			
30	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
			Hydrophytic Vegetation			
			Present? Yes X No			
	% Cover 10  10  50 30 20  1000  25 20 15 5 5	% Cover         Species?           10         Yes           30         Yes           20         Yes           100         =Total Cover           25         Yes           20         Yes           15         Yes           5         No           5         No           70         =Total Cover	% Cover         Species?         Status           10         Yes         FACW           50         Yes         FACW           30         Yes         FACW           20         Yes         FACU           25         Yes         FACW           15         Yes         FACW           5         No         FACW           5         No         FACW           5         No         FACW           70         =Total Cover			

Sampling Point: T Wet

SOIL Sampling Point T Wet

Profile Desc Depth	ription: (Describe to Matrix	o the de		<b>ument th</b> x Feature		ator or co	onfirm the absence o	f indicators.)
(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	С	PL/M	Loamy/Clayey	Prominent redox concentrations
		<u> </u>		<u> </u>	<u> </u>	<u> </u>		
17			4-Dadwaad Matrix N	40-14			21	N - Dana Lining M-Mahir
Hydric Soil I	ncentration, D=Deple	etion, Riv	i=Reduced Matrix, IV	15=Masi	ked Sand	d Grains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black His Hydroger Stratified Thick Da Mesic Sp (MLR. Sandy M Sandy G Sandy R Stripped	(A1) ipedon (A2)	(A11)	Dark Surface (Secondary Merchant Surface)  MLRA 149B  Thin Dark Surface High Chroma Social Loamy Mucky In Loamy Gleyed X Depleted Matrix X Redox Dark Surface Depleted Dark X Redox Depress Marl (F10) (LR Red Parent Matrix	w Surface ) ace (S9) Sands (S Mineral ( Matrix (I x (F3) urface (F Surface Sions (FE R K, L)	(LRR R 111) (LRI (F1) (LRI F2) 6) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu Coast P 5 cm Mu Thin Dai Iron-Mai Piedmor Red Par Very Sh Other (E	cack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) use Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) rent Material (F21) (outside MLRA 145) allow Dark Surface (F22) explain in Remarks) ors of hydrophytic vegetation and nd hydrology must be present, s disturbed or problematic.
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No
Remarks:								



Wetland T - View facing north



**Wetland T - Soils** 

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

### 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: Guilder	land/Albany	Sampling Date: 7/29/22
Applicant/Owner: TDI			State: NY	Sampling Point: T Upl
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): convex	Slope %: 5
Subregion (LRR or MLRA): LRR R	Lat: 42 43 17"N	•	-73 57 39"W	 Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 31			NWI classification:	
Are climatic / hydrologic conditions on the site		Vac v	<del></del>	explain in Remarks.)
, ,	,,	Yes x	<del></del> `	,
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	' <u></u>		d, explain any answers in	·
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled A	rea	
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X
Wetland Hydrology Present?	Yes No _X	If yes, optional We	etland Site ID: near flag	9 P5-M-7
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Deciduous forest.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (	
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	— Hydrogen Sulfide Odor (C	· ·	Crayfish Burrows (C	·
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position	
Inundation Visible on Aerial Imagery (B7)		re)	Shallow Aquitard (E Microtopographic R	
Sparsely Vegetated Concave Surface (B.	· <del></del>	.5)	FAC-Neutral Test (	, ,
Field Observations:		<u> </u>		50)
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

#### **VEGETATION** – Use scientific names of plants. Sampling Point: T Upl Absolute Indicator Dominant Tree Stratum (Plot size: 30' % Cover Species? Status **Dominance Test worksheet:** 1. Acer rubrum 60 Yes FAC **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 7 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 28.6% (A/B) 7. Prevalence Index worksheet: 60 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: **OBL** species x 1 = Lonicera morrowii 70 **FACU FACW** species 5 x 2 = 10 FAC species 80 2. Rhamnus cathartica 20 Yes FAC x 3 = 240 215 3. **FACU** species x 4 = 860 0 4. **UPL** species x 5 = 0 5. Column Totals: 300 (A) 1110 3.70 6. Prevalence Index = B/A = 7. **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation

Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%
Parthenocissus quinquefolia	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Celastrus orbiculatus	40	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3. Rosa multiflora	5	No	FACU	data in Remarks or on a separate sheet)
4. Solidago gigantea	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Circaea canadensis	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Actaea rubra	5	No	FACU	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. Celastrus orbiculatus	40	Yes	FACU	height.
2. Parthenocissus quinquefolia	10	Yes	FACU	
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	50	=Total Cover		

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

SOIL Sampling Point T Upl

Profile Desc Depth	ription: (Describe to Matrix	o the de		<b>ument tl</b> x Featur		tor or co	onfirm the absence of indic	cators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-8	10YR 4/3	100			<u> </u>		Loamy/Clayey		
0.16	10VD 5/2	100							
8-16	10YR 5/3	100					Loamy/Clayey		
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	/I=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Mati	rix.
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric	: Soils³:
Histosol			Dark Surface (\$					10) ( <b>LRR K, L, M</b>	•
	ipedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,		Redox (A16) ( <b>LR</b>	<u>=</u>
Black His			MLRA 149B)	,				eat or Peat (S3)	
	n Sulfide (A4)		Thin Dark Surfa					ow Surface (S8) (	•
	Layers (A5) Below Dark Surface	/ <b>A11</b> \	High Chroma S					ace (S9) (LRR K	-
	rk Surface (A12)	(A11)	Loamy Mucky I Loamy Gleyed			K K, L)		se Masses (F12) dplain Soils (F19	
	oodic (A17)		Depleted Matrix		1 2)				side MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		6)			Dark Surface (F2	
	ucky Mineral (S1)		Depleted Dark		-		Other (Explain	-	,
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F	8)		<u>—</u>		
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	RK,L)			<sup>3</sup> Indicators of h	nydrophytic vege	tation and
Stripped	Matrix (S6)		Red Parent Ma	ıterial (F	21) <b>(MLF</b>	RA 145)	wetland hyd	rology must be p	resent,
							unless distu	rbed or problema	itic.
	ayer (if observed):								
Type: _									
Depth (in	iches):						Hydric Soil Present?	Yes	No X
Remarks:									



Upland T - View facing south.



**Upland T- Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

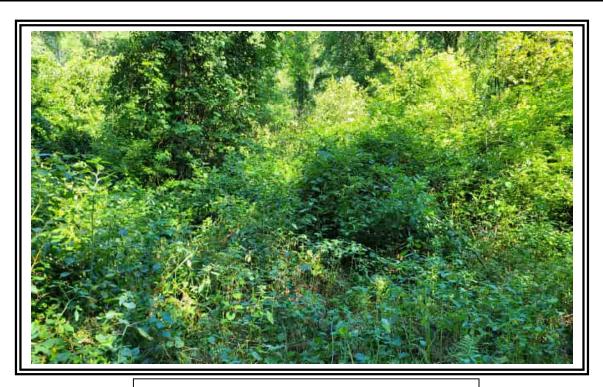
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	(	City/County: Guilder	land/Albany	Sampling Date: 7/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-G Wet
Investigator(s): C. Einstein & J. Greaves		Section, To	——— wnship, Range:	
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex, none): concave	Slope %: 5
Subregion (LRR or MLRA): LRR R	Lat: 42 43 16"N	•	-73 57 41"W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3 to			NWI classification:	PSS1
Are climatic / hydrologic conditions on the site		Vac v	<del></del>	
, ,	,,	Yes x	`	explain in Remarks.)
Are Vegetation, Soil, or Hydrold			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrold	' <del></del>		d, explain any answers in	·
SUMMARY OF FINDINGS – Attach s	site map showing samp	oling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland		No
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: near flag	P5-G-11
Remarks: (Explain alternative procedures her	re or in a separate report.)			
Shrub swamp.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (	·
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
Sediment Deposits (B2)	Oxidized Rhizospheres on			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	·
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solls (Co)	x Geomorphic Positio Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)		e)	Microtopographic R	· ·
Sparsely Vegetated Concave Surface (B8	·	3)	X FAC-Neutral Test (I	` '
Field Observations:			<u> </u>	/
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?	YesX No
(includes capillary fringe)	<u></u>			
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, prev	vious inspections), if	available:	
Remarks: Seasonally saturated.				
Ocasonany saturates.				

<b>/EGETATION</b> – Use scientific names of pla	มาเอ.			Sampling Point:	P5-G Wet
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Ulmus americana	5	Yes	FACW	Number of Dominant Species	
2.				That Are OBL, FACW, or FAC:	4 (A)
3.				Total Number of Dominant	
4.				Species Across All Strata:	6 (B)
5.				Percent of Dominant Species	
6.				•	66.7% (A/B)
7.				Prevalence Index worksheet:	
	5	=Total Cover		Total % Cover of: Mu	ultiply by:
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 0 x 1 =	0
1. Cornus amomum	70	Yes	FACW	FACW species 165 x 2 =	330
2. Alnus incana	15	No	FACW	FAC species 12 x 3 =	36
3. Viburnum lentago	5	No	FAC	FACU species 7 x 4 =	28
4.				UPL species 0 x 5 =	0
5.				Column Totals: 184 (A)	394 (B)
6.				Prevalence Index = B/A =	2.14
7.				Hydrophytic Vegetation Indicators:	
	90	=Total Cover		1 - Rapid Test for Hydrophytic Ve	
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%	90
Impatiens capensis	65	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Cornus amomum	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (P	rovide supporting
3. Alnus incana	5	No	FACW	data in Remarks or on a separa	
4. Toxicodendron radicans	5	No No	FAC	Problematic Hydrophytic Vegetati	ion <sup>1</sup> (Evolain)
	<u> </u>	NO	FAC	<u> </u>	
5		-		<sup>1</sup> Indicators of hydric soil and wetland h	
6		-		be present, unless disturbed or proble	matic.
7		-		Definitions of Vegetation Strata:	
8				Tree – Woody plants 3 in. (7.6 cm) or	
9.				diameter at breast height (DBH), rega	rdless of height.
10.		<u> </u>		Sapling/shrub – Woody plants less the	
11		<del>-</del>		and greater than or equal to 3.28 ft (1	m) tall.
12				Herb – All herbaceous (non-woody) p	
	80	=Total Cover		of size, and woody plants less than 3.	28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines great	ter than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.	
2. Toxicodendron radicans	2	Yes	FAC	Undrophydia	
3. Celastrus orbiculatus	2	Yes	FACU	Hydrophytic Vegetation	
4				Present? Yes X No	
	9	=Total Cover			

SOIL Sampling Point P5-G Wet

Profile Desc Depth	ription: (Describe to Matrix	o the de		<b>ument tl</b> x Featur		tor or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 2/1	100					Loamy/Clayey	
2-16	10YR 4/2	70	10YR 4/6	10			Loamy/Clayey	Prominent redox concentrations
	1011(4/2		1011(4/0				Loamy, Grayey	Tromment redox concentrations
<sup>1</sup> Type: C=Cc	oncentration, D=Deple	etion RM	=Reduced Matrix M	MS=Mas	ked Sand		<sup>2</sup> l ocation: F	
Hydric Soil I		cuon, raiv	i-Reduced Matrix, I	VIO-IVIAS	Keu Gand	Oranis.		or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black His Hydrogel Stratified Thick Da Mesic Sp (MLR. Sandy M Sandy G Sandy R Stripped	(A1) sipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) I Below Dark Surface ork Surface (A12) codic (A17) A 144A, 145, 149B) sucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)  Layer (if observed):	(A11)	Dark Surface ( Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Si Depleted Dark Redox Depres Marl (F10) (LR Red Parent Ma	ow Surface (S9) Sands (S Mineral I Matrix ( ix (F3) urface (Fa Surface sions (Fa RR K, L)	(LRR R 611) (LRI (F1) (LRI F2) (66) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu Coast P 5 cm Mu Thin Da Iron-Mai Piedmoi Red Par Very Sh Other (E	uck (A10) (LRR K, L, MLRA 149B) trairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rnganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) rent Material (F21) (outside MLRA 145 allow Dark Surface (F22) Explain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic.
Remarks:								



Wetland P5-G - View facing west



Wetland P5-G - Soils

**SITE PHOTOGRAPHS** 

Segment 8 – Package 5A

### 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: Guilder	land/Albany	Sampling Date: 7/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-H Wet
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	x, none): concave	Slope %: 5
Subregion (LRR or MLRA): LRR R	Lat: 42 43 09"N	•	-73 57 39"W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:	PSS1
Are climatic / hydrologic conditions on the site		Vac v		explain in Remarks.)
, ,	,,	Yes X		,
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol			l, explain any answers in	·
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes <u>X</u>	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: near flag	P5-H-11
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Shrub swamp.				
HYDROLOGY				
			C Ludioskous (v	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is require	ed check all that apply)			ninimum of two required)
Surface Water (A1)	Water-Stained Leaves (B	0)	Surface Soil Cracks Drainage Patterns (	
High Water Table (A2)	Aquatic Fauna (B13)	9)	Moss Trim Lines (B	·
x Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1)	Crayfish Burrows (C	
Sediment Deposits (B2)	x Oxidized Rhizospheres or	•		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	=
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positio	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	03)
Inundation Visible on Aerial Imagery (B7	· <del></del>	s)	Microtopographic R	elief (D4)
Sparsely Vegetated Concave Surface (B	.8)		X FAC-Neutral Test (I	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?	YesX No
(includes capillary fringe)	-it-ring well corial photos prov	developed in	ilahlar	
Describe Recorded Data (stream gauge, mor	Altoring well, aerial priotos, prev	vious irispections <sub>)</sub> , ir	avaliable.	
Remarks:				

Charles (District)	Absolute	Dominant	Indicator	Daminana Taat wada baat
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
. Ulmus americana	5	Yes	FACW	Number of Dominant Species
·		- ——		That Are OBL, FACW, or FAC:3(A)
·				Total Number of Dominant
·		· ——		Species Across All Strata: 3 (B)
i				Percent of Dominant Species
i				That Are OBL, FACW, or FAC:100.0% (A/
·	-			Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
Cornus amomum	90	Yes	FACW	FACW species 160 x 2 = 320
Lonicera tatarica	10	No	FACU	FAC species 5 x 3 = 15
3				FACU species15 x 4 =60
l				UPL species 0 x 5 = 0
i				Column Totals: 180 (A) 395 (
i				Prevalence Index = B/A = 2.19
·				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
. Impatiens capensis	65	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lonicera tatarica	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide suppor
3. Arisaema triphyllum	5	No	FAC	data in Remarks or on a separate sheet)
i.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				1 and another of bridge and another discount and bridge and another discount and bridge and another discount another discount and another discount another discount another discount and another discount another discou
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.
·.				Definitions of Vegetation Strata:
3.				<b>-</b>
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
0.		· ·		
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2				
	 75	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30' )		-		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft
l 2.				height.
				Hydrophytic
3.				Vegetation
l		<u> </u>		Present? Yes X No
		=Total Cover		

SOIL Sampling Point P5-H Wet

Depth	Matrix	o the de		ı <b>ment t</b> ı x Featur		ALUF OF CC	onfirm the absence o	i indicators.	.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	3
0-3	10YR 3/1	90	10YR 4/6	10	c	_PL_	Loamy/Clayey	Prominer	nt redox co	ncentrations
3-16	10YR 4/1	70	10YR 4/6	30	c	m	Loamy/Clayey	Promine	nt redox co	ncentrations
<sup>1</sup> Type: C=Ce	oncentration, D=Deple	etion, RN	 ∕/=Reduced Matrix, N	 IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: P	L=Pore Linir	ng, M=Matri	ix.
Hydric Soil	•	,	,				Indicators for			
Histosol			Dark Surface (	S7)				ıck (A10) ( <b>LF</b>		
Histic Ep	oipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast P	rairie Redox	(A16) ( <b>LRF</b>	R K, L, R)
Black Hi	stic (A3)		MLRA 149B	)			5 cm Mu	icky Peat or	Peat (S3) (	LRR K, L, R)
Hydroge	n Sulfide (A4)		Thin Dark Surf	ace (S9	(LRR R	, MLRA 1	<b>49B</b> ) Polyvalu	e Below Sur	face (S8) ( <b>I</b>	LRR K, L)
Stratified	d Layers (A5)		High Chroma S	Sands (S	311) ( <b>LR</b> I	R K, L)	Thin Dar	rk Surface (S	9) ( <b>LRR K</b> ,	, <b>L</b> )
	d Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mar	nganese Mas	sses (F12)	(LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	F2)					) (MLRA 149B)
	podic (A17)		X Depleted Matri							side MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su					allow Dark S	-	2)
	lucky Mineral (S1)		Depleted Dark		. ,		Other (E	xplain in Rer	marks)	
	Gleyed Matrix (S4)		Redox Depress		8)		3			
	Redox (S5)		Marl (F10) ( <b>LR</b>	-	04) <b>(11)</b>			ors of hydrop		
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) <b>(ML</b> F	RA 145)		nd hydrology s disturbed o		
Restrictive	Layer (if observed):									
Type:										
Depth (ii	nches):						Hydric Soil Presei	nt?	Yes X	No
Remarks:										



Wetland P5-H - View facing west Lat: 42.719901 Long: -73.961380



Wetland P5-H - Soils

SITE PHOTOGRAPHS

Segment 8 – Package 5A

Champlain Hudson Power Express

### 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: Guilder	land/Albany	Sampling Date: 7/_/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-G & H Upl
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): concave	Slope %: 5
Subregion (LRR or MLRA): LRR R	Lat: 42 43 16"N	•	-73 57 41"W	Datum: WGS84
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:	
Are climatic / hydrologic conditions on the site		Vac v		ovaloin in Domarke )
, ,		Yes X	<del></del>	explain in Remarks.)
Are Vegetation, Soil, or Hydro			nal Circumstances" prese	
Are Vegetation, Soil, or Hydro			d, explain any answers in	·
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea	
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	P5-G-11
Deciduous forest. This data point also repres	ents the conditions of the uplan	ia adjacent to wella	nu i 3-ii.	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (	· ·
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	•
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in	` '	Stunted or Stressed Geomorphic Positio	
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solis (Go)	Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7		s)	Microtopographic R	
Sparsely Vegetated Concave Surface (B	· ——	3)	FAC-Neutral Test (I	` '
Field Observations:	-7			
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No _ X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

Number of Dominant Species   That Are OBL, FACW, or FAC:   1   (A   A   A   A   A   A   A   A   A	oacacia a artica tum (Plot size: 15'	es AC: 1 (A)  11 (B) es AC: 9.1% (A/B) eet:			
2. Prunus serotina	artica  tum (Plot size: 15'	AC:1 (A)11 (B) es AC:9.1% (A/B) eet:			
2. Prunus serotina	artica tum (Plot size:15'	AC:1 (A)11 (B) es AC:9.1% (A/B) eet:			
A.   Rhamnus cathartica   5	tum (Plot size: 15'	es AC: 9.1% (A/B)			
4. Rhamnus cathartica       5       No       FAC       Species Across All Strata:       11       (B         5	tum (Plot size: 15'	es AC: 9.1% (A/B)			
Percent of Dominant Species   That Are OBL, FACW, or FAC:   9.1% (A	1	AC: 9.1% (A/B)			
That Are OBL, FACW, or FAC:9.1%(A	1	AC: 9.1% (A/B)			
Sapling/Shrub Stratum (Plot size: 15' )   Sapling/Shrub Stratum (Plot	1				
Sapling/Shrub Stratum         (Plot size:         15'         )           1. Rosa multiflora         15         Yes         FACU         FACW species         5         x 2 =         10           2. Robinia pseudoacacia         15         Yes         FACU         FAC species         30         x 3 =         90           3. Prunus serotina         15         Yes         FACU         FACU species         235         x 4 =         940           4. Lonicera tatarica         15         Yes         FACU         UPL species         0         x 5 =         0           5.         Column Totals:         270         (A)         1040           6.         Prevalence Index = B/A =         3.85           7.         Hydrophytic Vegetation Indicators:           1 - Rapid Test for Hydrophytic Vegetation	1	Multiply by:			
1. Rosa multiflora       15       Yes       FACU       FACW species       5       x 2 =       10         2. Robinia pseudoacacia       15       Yes       FACU       FAC species       30       x 3 =       90         3. Prunus serotina       15       Yes       FACU       FACU species       235       x 4 =       940         4. Lonicera tatarica       15       Yes       FACU       UPL species       0       x 5 =       0         5.       Column Totals:       270       (A)       1040         6.       Prevalence Index = B/A =       3.85         Hydrophytic Vegetation Indicators:       1 - Rapid Test for Hydrophytic Vegetation	1				
2. Robinia pseudoacacia       15       Yes       FACU       FAC species       30       x 3 = 90         3. Prunus serotina       15       Yes       FACU       FACU species       235       x 4 = 940         4. Lonicera tatarica       15       Yes       FACU       UPL species       0       x 5 = 0         5.       Column Totals:       270       (A)       1040         6.       Prevalence Index = B/A = 3.85         7.       Hydrophytic Vegetation Indicators:         60       =Total Cover       1 - Rapid Test for Hydrophytic Vegetation		x 1 = 0			
3. Prunus serotina         15         Yes         FACU         FACU species         235         x 4 = 940           4. Lonicera tatarica         15         Yes         FACU         UPL species         0         x 5 = 0           5.         Column Totals:         270         (A)         1040           6.         Prevalence Index = B/A = 3.85           7.         Hydrophytic Vegetation Indicators:           60         =Total Cover         1 - Rapid Test for Hydrophytic Vegetation		x 2 = 10			
4. Lonicera tatarica       15       Yes       FACU       UPL species       0       x 5 = 0         5.       Column Totals:       270       (A)       1040         6.       Prevalence Index = B/A = 3.85         7.       Hydrophytic Vegetation Indicators:         60       =Total Cover       1 - Rapid Test for Hydrophytic Vegetation	oacacia e e e e e e e e e e e e e e e e e e e	x 3 = 90			
5.         Column Totals: 270 (A) 1040           6.         Prevalence Index = B/A = 3.85           7.         Hydrophytic Vegetation Indicators:           60 =Total Cover         1 - Rapid Test for Hydrophytic Vegetation	 a	x 4 = 940			
6. Prevalence Index = B/A = 3.85  7. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation	 ca	x 5 = 0			
7. Hydrophytic Vegetation Indicators:  60 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation		(A) 1040 (B)			
		B/A = 3.85			
<u> </u>		dicators:			
Herb Stratum (Plot size: 5' ) 2 - Dominance Test is >50%		ophytic Vegetation			
2 Dominante Fest is 3070	ot size: 5' )	>50%			
1. Alliaria petiolata 25 Yes FACU 3 - Prevalence Index is ≤3.0 <sup>1</sup>	<u></u> а	≤3.0 <sup>1</sup>			
2. Hackelia virginiana 20 Yes FACU 4 - Morphological Adaptations <sup>1</sup> (Provide suppo	iana	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Rosa multiflora 15 Yes FACU data in Remarks or on a separate sheet)		data in Remarks or on a separate sheet)			
4. Lonicera tatarica 10 No FACU Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	са	c Vegetation <sup>1</sup> (Explain)			
5. Geranium maculatum 10 No FACU Indicators of hydric soil and wetland hydrology mu	ulatum	d watland hydrology must			
6. Geum canadense 10 No FAC be present, unless disturbed or problematic.	ıse				
7. Solidago gigantea 5 No FACW Definitions of Vegetation Strata:	tea	Strata:			
8. Pteridium aquilinum 5 No FACU Tree – Woody plants 3 in. (7.6 cm) or more in	'inum	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		ante less than 3 in DRH			
and greater than or equal to 3.28 ft (1 m) tall.					
12 Herb – All herbaceous (non-woody) plants, regardl		-woody) plants regardless			
Woody Vine Stratum (Plot size: 30' ) Woody vines – All woody vines greater than 3.28 to	<u>m</u> (Plot size:30'	vines greater than 3.28 ft in			
1. Toxicodendron radicans 10 Yes FAC height.	radicans	ines greater than 5.20 it in			
2. Celastrus orbiculatus 10 Yes FACU	culatus				
3. Vitis aestivalis 5 Yes FACU Hydrophytic Vegetation					
4 Present? Yes No X		NoX			
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point P5-G & H Upl

	•	o the de	•			tor or co	onfirm the absence of indi	cators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 4/2	100					Loamy/Clayey	
3-16	10YR 4/3	100					Loamy/Clayey	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	 1=Reduced Matrix, N	 /IS=Mas∣	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.
Hydric Soil I								oblematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Dark Surface (	S7)			2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	Coast Prairie	Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B	•				Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf					ow Surface (S8) (LRR K, L)
	Layers (A5)	(444)	High Chroma S					face (S9) (LRR K, L)
	Below Dark Surface rk Surface (A12)	(A11)	Loamy Mucky			K K, L)		ese Masses (F12) (LRR K, L, R)
	odic (A17)		Loamy Gleyed Depleted Matri		12)			odplain Soils (F19) (MLRA 149B) aterial (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		-6)			Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark	-	-			n in Remarks)
	leyed Matrix (S4)		Redox Depress				<u> </u>	·
Sandy Re	edox (S5)		Marl (F10) ( <b>LR</b>	RK, L)			<sup>3</sup> Indicators of	hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	•	Irology must be present,
							unless distu	urbed or problematic.
	ayer (if observed):							
Type: _								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Remarks:								



Upland P5-G & H - View facing west



Upland P5-G & H - Soils

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

### 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: Guilder	and/Albany	Sampling Date: 7/29/22				
Applicant/Owner: TDI			State: NY	Sampling Point: P5-I Wet				
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:					
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	x, none): concave	Slope %: 5				
Subregion (LRR or MLRA): LRR R	Lat: 42 43 07"N		-73 57 39"W	 Datum: WGS84				
Soil Map Unit Name: HuE - Hudson silt loam,			NWI classification:	PEM2				
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)				
Are Vegetation, Soil, or Hydrologic			nal Circumstances" prese	•				
<del></del>			·	<del></del>				
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?	Yes X No	Is the Sampled Area						
Hydric Soil Present?	Yes X No	within a Wetland	? Yes <u>X</u>	No				
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: near flag	P5-I-4				
Remarks: (Explain alternative procedures he	re or in a separate report.)							
Shallow emergent marsh.								
HYDROLOGY								
			• In directions (m	· · · · · · · · · · · · · · · · · · ·				
Wetland Hydrology Indicators:	shook all that apply)		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is require		0/	Surface Soil Cracks (B6)					
X Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (BS Aquatic Fauna (B13)	9)	Drainage Patterns (B10)  Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C							
Sediment Deposits (B2)	x Oxidized Rhizospheres on							
Drift Deposits (B3)	Presence of Reduced Iron							
Algal Mat or Crust (B4)	Recent Iron Reduction in							
Iron Deposits (B5)	Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7)		e)	Microtopographic R	· ·				
Sparsely Vegetated Concave Surface (B8		5)	X FAC-Neutral Test (D5)					
Field Observations:	<u> </u>		<u> </u>	50)				
Surface Water Present? Yes x	No Depth (inches):	1						
Water Table Present? Yes	No x Depth (inches):							
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes X No				
(includes capillary fringe)	,	<del></del> [	<del>- 1.,</del>					
Describe Recorded Data (stream gauge, mon	nitoring well, aerial photos, prev	vious inspections), if	available:					
,		• •						
Remarks:								

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00001	Оросноо:	<u> </u>	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(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: 66.7% (A/B)
7.				Prevalence Index worksheet:
·		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x1 = 0
1. Rosa multiflora	10	Yes	FACU	FACW species 120 x 2 = 240
2. Cornus amomum	20	Yes	FACW	FAC species 0 x 3 = 0
3. Lonicera morrowii	5	No	FACU	FACU species 15 x 4 = 60
4.				UPL species 0 x 5 = 0
5.				Column Totals: 135 (A) 300 (B)
6.				Prevalence Index = B/A = 2.22
7.				Hydrophytic Vegetation Indicators:
<u> </u>	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Impatiens capensis	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				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 and greater than or equal to 3.28 ft (1 m) tall.
11				
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.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				3
3.				Hydrophytic
1				Vegetation Present? Yes X No
T		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet )			
Remarks. (include prioto numbers here of on a separ	ate sneet.)			

Sampling Point: P5-I Wet

SOIL Sampling Point P5-I Wet

Depth	ription: (Describe t Matrix	.o the de	•	<b>ıment ti</b> x Featur		ator or co	onfirm the absence o	indicator	S.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-8	10YR 3/1	80	10YR 3/6	20	С	pl	Loamy/Clayey	Prominent redox concentrations		
8-16	10YR 3/2	70	10YR 3/4	20	С	m	Loamy/Clayey	Distino	ct redox cond	centrations
			10YR 3/6	10	С			Promin	ent redox co	ncentrations
							<del></del> ·			
1Type: C=C	noontration D-Donl	otion DI	 M=Reduced Matrix, M		Lod Son		2l continue D	I -Doro Lin	ing M-Motri	
Hydric Soil		ellon, Kr	/i-Reduced Matrix, M	15-IVIAS	keu San	u Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol			Dark Surface (S	S7)					LRR K, L, MI	
Histic Ep	pipedon (A2)		Polyvalue Belov	w Surfa	ce (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)						
	n Sulfide (A4)		Thin Dark Surfa							
	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)			RK,L)	Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> ) Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )					
	ork Surface (A12) oodic (A17)		Loamy Gleyed Depleted Matrix		,F2)					
	A 144A, 145, 149B)		X Redox Dark Surface (F6)			Red Parent Material (F21) (outside MLRA 145) Very Shallow Dark Surface (F22)				
	ucky Mineral (S1)  Depleted Dark Surface (F7)				Other (Explain in Remarks)					
	andy Gleyed Matrix (S4)  Redox Depressions (F8)									
	Sandy Redox (S5) Marl (F10) ( <b>LRR K, L</b> )				<sup>3</sup> Indicators of hydrophytic vegetation and					
	itripped Matrix (S6) Red Parent Material (F21) (MLRA 145		RA 145)	wetland hydrology must be present,						
							unless disturbed or problematic.			
	_ayer (if observed):									
Type:										
	nches):						Hydric Soil Preser	nt?	YesX	No
Remarks:										



Wetland P5-I - View facing west



Wetland P5-I - Soils

SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Segment 8 – Package 5A

#### **U.S. Army Corps of Engineers**

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE	(	City/County: Guilder	land/Albany	Sampling Date: 7/29/22				
Applicant/Owner: TDI			State: NY	Sampling Point: P5-I Upl				
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>				
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	x, none): convex	Slope %: 30				
Subregion (LRR or MLRA): LRR R	Lat: 42 43 07"N		-73 57 39"W	Datum: WGS84				
Soil Map Unit Name: HuE - Hudson silt loam,	<del></del>		NWI classification:					
· · · · · · · · · · · · · · · · · · ·		Vac v		lain in Domarka )				
Are climatic / hydrologic conditions on the site if		Yes x	<del></del> ` · ·	explain in Remarks.)				
Are Vegetation, Soil, or Hydrold			nal Circumstances" pres					
Are Vegetation, Soil, or Hydrold	·		d, explain any answers ir	·				
SUMMARY OF FINDINGS – Attach s	site map showing samp	oling point locat	tions, transects, in	nportant features, etc.				
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea					
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X				
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID: near flag	p P5-I-4				
Remarks: (Explain alternative procedures her	re or in a separate report.)							
Deciduous forest.								
LIVEROLOGY								
HYDROLOGY								
Wetland Hydrology Indicators:				minimum of two required)				
Primary Indicators (minimum of one is require			Surface Soil Crack					
Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns					
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B13)		Moss Trim Lines (E	·				
Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C	<b>141</b>	Dry-Season Water Crayfish Burrows (0					
Sediment Deposits (B2)	Oxidized Rhizospheres on	•						
Drift Deposits (B3)	Presence of Reduced Iron							
Algal Mat or Crust (B4)	Recent Iron Reduction in		· · · · · · · · · · · · · · · · · · ·					
Iron Deposits (B5)	Thin Muck Surface (C7)	, ,	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)		s)	Microtopographic F					
Sparsely Vegetated Concave Surface (B8	<del></del>	•	FAC-Neutral Test (	D5)				
Field Observations:								
Surface Water Present? Yes	No x Depth (inches):							
Water Table Present? Yes	No x Depth (inches):							
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No _ X				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, prev	ious inspections), if	available:					
Remarks:								
Remains.								

ree Stratum (Plot size: 30' )  Robinia pseudoacacia  Prunus serotina  Fagus grandifolia  apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora  Prunus serotina	Absolute % Cover 65 15 10 90	Dominant Species? Yes No No	FACU FACU FACU	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across All Strata: 8 (B)
Prunus serotina  Fagus grandifolia  apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora	15 10	No No	FACU	That Are OBL, FACW, or FAC: (A)  Total Number of Dominant Species Across All Strata: 8 (B)
Fagus grandifolia  apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora	10	No		That Are OBL, FACW, or FAC: (A)  Total Number of Dominant Species Across All Strata: 8 (B)
apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora			FACU	Species Across All Strata: 8 (B)
apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora	90			Species Across All Strata: 8 (B)
apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora	90			
apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora	90			Libercont of Llominant Shacide
apling/Shrub Stratum (Plot size: 15' )  Rosa multiflora	90			Percent of Dominant Species That Are OBL, FACW, or FAC: 12.5% (A/B
Rosa multiflora	90			Prevalence Index worksheet:
Rosa multiflora		=Total Cover		Total % Cover of: Multiply by:
Rosa multiflora		•		OBL species 0 x1 = 0
	40	Yes	FACU	FACW species 5 x 2 = 10
i iulius scrottiiu	15	Yes	FACU	FAC species 5 x 3 = 15
Lonicera morrowii	15	Yes	FACU	FACU species 250 x 4 = 1000
Lonicera morrowii	10	. 165	FACU_	UPL species 0 x 5 = 0
				<u> </u>
		- ——		Column Totals: 260 (A) 1025 (B
·				Prevalence Index = B/A = 3.94
				Hydrophytic Vegetation Indicators:
-	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5' )				2 - Dominance Test is >50%
Alliaria petiolata	50	Yes	<u>FACU</u>	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Circaea canadensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Rosa multiflora	15	No	FACU	data in Remarks or on a separate sheet)
Pilea pumila	5	No	FACW	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:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
D				
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
-	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
- <u>oody Vine Stratum</u> (Plot size: 30' )				
Toxicodendron radicans	5	Yes	FAC	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Celastrus orbiculatus	5 5	Yes	FACU	Height.
	<u> </u>		FACU	Hydrophytic
·		. ——		Vegetation No. V
·				Present?
<del>_</del>	10	_=Total Cover		

SOIL Sampling Point P5-I Upl

Profile Desc Depth	Profile Description: (Describe to the depth needed to document the indicator or co Depth Matrix Redox Features							indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks		
0-3	10YR 2/1	100					Loamy/Clayey				
3-16	10YR 3/4	80	10YR 4/4	20			Loamy/Clayey	Faint redox c	oncentrations		
3-10	10110 3/4		10111 4/4		<u> </u>		Loanly/Clayey	r ann redux c	Officeritiations		
									_		
				—							
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion. RN	/=Reduced Matrix. M	 IS=Mas <sup>l</sup>	ked San	d Grains.	<sup>2</sup> Location: PI	_=Pore Lining, M=N	Matrix.		
Hydric Soil I								r Problematic Hy			
Histosol			Dark Surface (	S7)				_			
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Pr	2 cm Muck (A10) (LRR K, L, MLRA 149B)Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Black Histic (A3) MLRA 149B)						5 cm Mu	cky Peat or Peat (S	63) (LRR K, L, R)			
Hydroger	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	Polyvalue	e Below Surface (S	8) ( <b>LRR K, L</b> )		
	Layers (A5)		High Chroma S				Thin Darl	k Surface (S9) ( <b>LR</b>	R K, L)		
	Below Dark Surface	(A11)	Loamy Mucky I	Mineral (	(F1) ( <b>LR</b>	RK, L)	Iron-Man	ganese Masses (F	12) ( <b>LRR K, L, R</b> )		
	rk Surface (A12)		Loamy Gleyed		F2)				F19) ( <b>MLRA 149B</b> )		
	odic (A17)		Depleted Matrix						outside MLRA 145)		
	A 144A, 145, 149B)		Redox Dark Su		-		Very Shallow Dark Surface (F22) Other (Explain in Remarks)				
	ucky Mineral (S1)		Depleted Dark				Other (Explain in Remarks)				
	leyed Matrix (S4) edox (S5)		Marl (F10) (LR		5)		<sup>3</sup> Indicators of hydrophytic vegetation and				
	Matrix (S6)		Red Parent Ma		21) (MI I	2Δ 145)	wetland hydrology must be present,				
ourpped	Watrix (CO)			torial (i	21) ( <b>IVIL</b> I	U-1 1-0)	unless disturbed or problematic.				
Restrictive L	.ayer (if observed):										
Type:	,										
Depth (in	iches):						Hydric Soil Presen	t? Yes	No X		
Remarks:	<u> </u>						_				
rtomanto.											



**Upland P5-I - View facing west** 



**Upland P5-I - Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

#### U.S. Army Corps of Engineers

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE		City/County: Guilder	land/Albany	Sampling Date: 8/25/22				
Applicant/Owner: TDI			State: NY	Sampling Point: P5-Q2 Wet				
Investigator(s): C. Scrivner & J. Greaves		Section, To	wnship, Range:	<u> </u>				
Landform (hillside, terrace, etc.): depression	on Local re	elief (concave, conve	ex. none): concave	Slope %: 3				
Subregion (LRR or MLRA): LRR R	Lat: 42 43 03N	•	-73 57 35W	Datum: WGS84				
Soil Map Unit Name: ScB - Scio silt loam, 3		3		<del></del>				
Are climatic / hydrologic conditions on the sit		Vac v						
, ,	,	Yes X	'	explain in Remarks.)				
Are Vegetation, Soil, or Hydro			nal Circumstances" prese					
Are Vegetation, Soil, or Hydro	<u> </u>		d, explain any answers in	•				
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point loca	tions, transects, im	portant features, etc.				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea					
Hydric Soil Present?	Yes X No	within a Wetland	? Yes <u>X</u>	No				
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID:					
Shallow emergent marsh adjacent to Fuller	Station Road.							
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)				
Primary Indicators (minimum of one is requi			Surface Soil Cracks					
Surface Water (A1)	x Water-Stained Leaves (B	39)	Drainage Patterns (	·				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·				
Saturation (A3)	Marl Deposits (B15)	~	Dry-Season Water					
Water Marks (B1)	Hydrogen Sulfide Odor (C	·	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)					
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres of Presence of Reduced Iron							
Algal Mat or Crust (B4)	Recent Iron Reduction in	` ,	· /					
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Colle (Co)	Soils (C6) <u>x</u> Geomorphic Position (D2) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B		(s)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (I	· —	,	X FAC-Neutral Test ([	` '				
Field Observations:	<u> </u>			,				
Surface Water Present? Yes	No Depth (inches): _							
Water Table Present? Yes	No Depth (inches):							
Saturation Present? Yes	No Depth (inches):	Wetlan	d Hydrology Present?	YesX No				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, prev	vious inspections), if	available:					
Remarks:								

<del></del>	Absolute	Dominant	Indicator	T			
ree Stratum (Plot size:30' )	% Cover	Species?	Status	Dominance Test worksheet:			
Ulmus americana	6	Yes	FACW	Number of Dominant Species			
. Rhamnus cathartica	4	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)			
·				Total Number of Dominant			
·				Species Across All Strata: 4 (B)			
				Percent of Dominant Species			
i				That Are OBL, FACW, or FAC: 100.0% (A/B			
·				Prevalence Index worksheet:			
	10	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species80 x1 =80			
. Cornus amomum	2	No	FACW	FACW species 18 x 2 = 36			
Sambucus racemosa	1	No	FACU_	FAC species 4 x 3 = 12			
i				FACU species4 x 4 =16			
l				UPL species0 x 5 =0			
5				Column Totals: 106 (A) 144 (B			
3				Prevalence Index = B/A = 1.36			
·				Hydrophytic Vegetation Indicators:			
	3	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%			
. Typha latifolia	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Lythrum salicaria	40	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Onoclea sensibilis	10	No	FACW	data in Remarks or on a separate sheet)			
l	<u> </u>	·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		· <u>-</u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
S				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
3.				Tree – Woody plants 3 in. (7.6 cm) or more in			
).				diameter at breast height (DBH), regardless of height			
0				Sapling/shrub – Woody plants less than 3 in. DBH			
1				and greater than or equal to 3.28 ft (1 m) tall.			
2				Herb – All herbaceous (non-woody) plants, regardles			
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size:30')	<del>-</del>			Woody vines – All woody vines greater than 3.28 ft i			
Vitis aestivalis	3	No	FACU	height.			
2.							
3.		,		Hydrophytic			
l				Vegetation   Present?			

SOIL Sampling Point P5-Q2 Wet

Profile Descripe Depth	ription: (Describe t Matrix	o the de		<b>ıment tl</b> x Featur		ator or co	onfirm the absence of	f indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-3	10YR 2/1	100					Loamy/Clayey				
3-9	10YR 3/1	75	10YR 4/6	5	С	pl	Loamy/Clayey	Prominent redox concentrations			
			10YR 5/4	_20_	c	m_		Distinct redox concentrations			
9-16	10YR 4/1	70	10YR 5/8	10	c	m	Loamy/Clayey	Prominent redox concentrations			
			10YR 5/3	_20_	c	m_		Distinct redox concentrations			
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RN	/=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.			
Hydric Soil In	ndicators:							or Problematic Hydric Soils <sup>3</sup> :			
Histosol (			Dark Surface (					ick (A10) ( <b>LRR K, L, MLRA 149B</b> )			
—— Histic Epi Black His	pedon (A2)		Polyvalue Belo MLRA 149B		ce (S8) (	LRR R,		rairie Redox (A16) ( <b>LRR K, L, R</b> ) ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )			
	,			•	\ /I DD D	MIDA					
	ı Sulfide (A4) Layers (A5)		Thin Dark Surfa					e Below Surface (S8) (LRR K, L)			
	Below Dark Surface	(A11)	Loamy Mucky I					rk Surface (S9) ( <b>LRR K, L</b> ) nganese Masses (F12) ( <b>LRR K, L, R</b> )			
	k Surface (A12)	(/ ( ) / )	Loamy Gleyed			it it, =/		nt Floodplain Soils (F19) (MLRA 149B)			
	odic (A17)		X Depleted Matrix		- –,			ent Material (F21) (outside MLRA 145)			
	A 144A, 145, 149B)		X Redox Dark Su		<del>-</del> 6)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)				
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)						
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F	8)						
Sandy Re	edox (S5)		Marl (F10) ( <b>LR</b>	<b>R K</b> , <b>L</b> )			<sup>3</sup> Indicators of hydrophytic vegetation and				
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) <b>(ML</b> F	RA 145)	wetland hydrology must be present,				
Postriotivo I	ayer (if observed):						unless I	disturbed or problematic.			
Type:	ayer (ii observed).										
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No			
Remarks:							l				



Wetland P5-Q2 - View facing west.



Wetland P5-Q2 - Soils

**SITE PHOTOGRAPHS** 

Segment 8 – Package 5A

#### U.S. Army Corps of Engineers

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE	(	City/County: Guilder	land/Albany	Sampling Date: 8/25/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P5-Q2 Upl			
Investigator(s): C. Scrivner & J. Greaves		Section, To	 wnship, Range:				
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	x, none): convex	Slope %: 30			
Subregion (LRR or MLRA): LRR R	Lat: 42 43 03N	•	-73 57 34W	Datum: WGS84			
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:				
		Vos. v		avalain in Damarka )			
Are climatic / hydrologic conditions on the site	,,	Yes x	` ` `	explain in Remarks.)			
Are Vegetation, Soil, or Hydro			nal Circumstances" prese				
Are Vegetation, Soil, or Hydro	' <del></del>		l, explain any answers in				
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes X No	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID:				
Remarks: (Explain alternative procedures he Mowed roadside adjacent to the wetland alor	' '						
HYDROLOGY							
Wetland Hydrology Indicators:	back all that apply)			ninimum of two required)			
Primary Indicators (minimum of one is requir Surface Water (A1)	Water-Stained Leaves (B	20)	Surface Soil Cracks Drainage Patterns (				
High Water Table (A2)	Aquatic Fauna (B13)	99)	Moss Trim Lines (B				
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·			
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1)	Crayfish Burrows (0	· ·			
Sediment Deposits (B2)	Oxidized Rhizospheres or	•					
Drift Deposits (B3)	Presence of Reduced Iron	. ,	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in						
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7	· — · · · ·	(s)	Microtopographic R	telief (D4)			
Sparsely Vegetated Concave Surface (B	J8)		FAC-Neutral Test (I	D5)			
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):			N V			
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No _X_			
(includes capillary fringe)	-it-ring well parial photos prov	idens inapportions) if	ilahlar				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial priolos, prev	vious inspections), ii	avaliable:				
Remarks:							

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1.		<u> </u>		Number of Deminant Charles				
2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)				
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)				
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:50.0%(A/B)				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0				
1. Rhus typhina	3	No	UPL	FACW species 50 x 2 = 100				
2.				FAC species 5 x 3 = 15				
3.				FACU species45 x 4 =180				
4.				UPL species3 x 5 =15				
5.				Column Totals: 103 (A) 310 (B)				
6.				Prevalence Index = B/A = 3.01				
7.				Hydrophytic Vegetation Indicators:				
	3	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%				
Phalaris arundinacea	50	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Poa pratensis	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
	5	No	FACU	data in Remarks or on a separate sheet)				
				Drahlamatic II (dranhytic ) (a gataticn 1 (Evalain)				
4. Toxicodendron radicans	5	No No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
<ul><li>5. Ambrosia artemisiifolia</li><li>6. Plantago lanceolata</li></ul>	<u>5</u>	No No	FACU FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7.				Definitions of Vegetation Strata:				
8				Tree – Woody plants 3 in. (7.6 cm) or more in				
9.				diameter at breast height (DBH), regardless of height.				
10.				Sapling/shrub – Woody plants less than 3 in. DBH				
11.				and greater than or equal to 3.28 ft (1 m) tall.				
12	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 height.				
				Holght.				
2				Hydrophytic				
3.				Vegetation No. No. V				
4.		=Total Cover		Present? Yes No _X				
Demarka: (Include photo numbers here or on a cons	roto oboot \	•						
Remarks: (Include photo numbers here or on a separ	ate sneet.)							

Sampling Point: P5-Q2 Upl

SOIL Sampling Point P5-Q2 Upl

Depth	Matrix	.0 1.10 40	•	x Featur			onfirm the absence o	· ····································	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2	10YR 2/2	100					Peat		
2-12	10YR 4/2	80	10YR 5/4		<u>c</u>	<u>m</u>	Loamy/Clayey	Distinct redox concentrations	
		_		<u> </u>					
¹Type: C=Co	oncentration, D=Depl	etion, RN	 /I=Reduced Matrix, М	 1S=Mas	ked San	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.	
Black Hi Hydroge Stratified X Depleted Thick Da Mesic Si (MLR Sandy M Sandy G Sandy R Stripped	(A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5)	Dark Surface (S7)				2 cm Mu Coast P 5 cm Mu Thin Da Iron-Mai Piedmoi Red Par Very Sh Other (E	s for Problematic Hydric Soils <sup>3</sup> :  Muck (A10) (LRR K, L, MLRA 149B)  t Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  alue Below Surface (S8) (LRR K, L)  Dark Surface (S9) (LRR K, L)  Manganese Masses (F12) (LRR K, L, R)  nont Floodplain Soils (F19) (MLRA 149B)  Parent Material (F21) (outside MLRA 145)  Shallow Dark Surface (F22)  (Explain in Remarks)  ators of hydrophytic vegetation and cland hydrology must be present, ess disturbed or problematic.		
Type:							Hydric Soil Prese	nt? Yes X No	
Remarks:									



Upland P5-Q2 - View facing south.



**Upland P5-Q2 - Soils** 

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

#### U.S. Army Corps of Engineers

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE	(	City/County: Guilder	land/Albany	Sampling Date: 7/29/22				
Applicant/Owner: TDI			State: NY	Sampling Point: P5-J Wet				
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>				
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	ex, none): concave	Slope %: 2				
Subregion (LRR or MLRA): LRR R	Lat: 42 43 04" N	•	-73 57 38"W	' Datum: WGS84				
Soil Map Unit Name: ScB - Scio silt loam, 3 t			NWI classification:	<del></del>				
Are climatic / hydrologic conditions on the site		Vac v		explain in Remarks.)				
		Yes X	`	,				
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	<del></del>				
Are Vegetation, Soil, or Hydrol			d, explain any answers in	•				
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea					
	Yes X No	within a Wetland	? Yes X	No				
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: near flag	P5-J-5				
Remarks: (Explain alternative procedures he Shallow emergent marsh.	re or in a separate report.)							
HYDROLOGY								
Wetland Hydrology Indicators:			-	ninimum of two required)				
Primary Indicators (minimum of one is require			Surface Soil Cracks					
Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (	· ·				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·				
x Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C	21)	Dry-Season Water - Crayfish Burrows (C					
Sediment Deposits (B2)	Oxidized Rhizospheres or	•						
Drift Deposits (B3)	Presence of Reduced Iron							
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '	· / · · · · · · · · · · · · · · · · · ·					
Iron Deposits (B5)	Thin Muck Surface (C7)	•	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	<del></del>						
Sparsely Vegetated Concave Surface (Bi	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 <u>X</u> No				
(includes capillary fringe)	-it-ring wall parial photos prov	········ inapartions) if	lahla.					
Describe Recorded Data (stream gauge, mor	iltoring well, aerial priotos, prev	nous inspections), ii	avaliable:					
Remarks:								

T 0 (D	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3.				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
1. Cornus amomum	5	Yes	FACW	FACW species 104 x 2 = 208
2. Rosa multiflora	5	Yes	FACU	FAC species1 x 3 = 3
3.				FACU species 5 x 4 = 20
4.				UPL species0 x 5 =0
5.				Column Totals: 110 (A) 231 (B)
6.		· <u></u>		Prevalence Index = B/A = 2.10
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Impatiens capensis	99	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Arisaema triphyllum	1	No	FAC	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.				<u></u>
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12			-	<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
·	,			

Sampling Point: P5-J Wet

SOIL Sampling Point P5-J Wet

Depth	Matrix	0/		ox Featur		Loc <sup>2</sup>	Tandona		Damani		
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc	Texture		Remark	<u>.S</u>	
0-2	10YR 2/1			- —			Loamy/Clayey				
2-6	10YR 3/1	70	10YR 5/6	30	C	pl	Loamy/Clayey	Prom	ninent redox co	oncentrations	
6-16	10YR 4/2	80	10YR 5/6			<u>m</u>	Loamy/Clayey	Prom	ninent redox co	oncentrations	
				- —							
				- —							
				- —							
				- —							
	oncentration, D=Deple	etion, RN	1=Reduced Matrix,	MS=Mas	ked San	d Grains.			Lining, M=Matr		
Hydric Soil			David Courfees	(07)					lematic Hydric		
Histosol			Dark Surface Polyvalue Be	-	re (S8) (	IRRR		. ,	) ( <b>LRR K, L, M</b> dox (A16) ( <b>LR</b> F	•	
Histic Epipedon (A2) Black Histic (A3)		MLRA 149		(50) (	LIXIX IX,			at or Peat (S3) (			
	n Sulfide (A4)		Thin Dark Su	,	) (LRR R	, MLRA 1		-	Surface (S8) (		
	d Layers (A5)		— High Chroma						ce (S9) ( <b>LRR K</b>		
	d Below Dark Surface	(A11)	Loamy Mucky	-						(LRR K, L, R)	
	ark Surface (A12)		Loamy Gleye			,				9) (MLRA 149B)	
Mesic S	podic (A17)		X Depleted Mat	rix (F3)			Red Pa	Red Parent Material (F21) (outside MLRA 14			
(MLR	A 144A, 145, 149B)		X Redox Dark S	Redox Dark Surface (F6) Very Shallow Dark Surfa				rk Surface (F2:	2)		
	lucky Mineral (S1)		Depleted Dar	k Surface	e (F7)		Other (I	Explain in	Remarks)		
	Gleyed Matrix (S4)		Redox Depre	ssions (F	8)						
Sandy R	Redox (S5)		Marl (F10) ( <b>L</b>	RR K, L)				-	drophytic veget		
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) <b>(ML</b> I	RA 145)		-	logy must be pi ed or problema		
Restrictive	Layer (if observed):						unies	3 disturbe	su or problema	illo.	
Type:											
Depth (ii	nches):						Hydric Soil Prese	nt?	Yes X	No	
Remarks:											



Wetland P5-J - View facing northeast



Wetland P5-J - Soils

**SITE PHOTOGRAPHS** 

Segment 8 – Package 5A

#### **U.S. Army Corps of Engineers**

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE		City/County: Guilder	land/Albany	Sampling Date: 7/29/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P5-J Upl			
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>			
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): convex	Slope %: 10			
Subregion (LRR or MLRA): LRR R	Lat: 42 43 03"N	•	-73 57 38"W	Datum: WGS84			
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:	<del></del>			
Are climatic / hydrologic conditions on the site		Vec v		explain in Remarks.)			
, ,	,,	Yes x	` `	,			
Are Vegetation, Soil, or Hydro			nal Circumstances" pres 	<del></del>			
Are Vegetation, Soil, or Hydro			d, explain any answers ir	•			
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	g P5-J-5			
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
Deciduous forest.							
10/2001 00V							
HYDROLOGY							
Wetland Hydrology Indicators:				minimum of two required)			
Primary Indicators (minimum of one is requir			Surface Soil Crack				
Surface Water (A1)	Water-Stained Leaves (B	<b>19</b> )	Drainage Patterns				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C						
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres or Presence of Reduced Iror		Stunted or Stresse	=			
Algal Mat or Crust (B4)	Recent Iron Reduction in		Geomorphic Position	· ·			
Iron Deposits (B5)	Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic F				
Sparsely Vegetated Concave Surface (B	· — · · · ·	,	FAC-Neutral Test (	` '			
Field Observations:	<del>'</del>		<del>_</del>				
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No _ X _			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:				
Remarks:							

Tree Stratum (Plot size: 30' )  1. Robinia pseudoacacia	Absolute % Cover 70	Dominant Species?	Indicator Status	Dominance Test worksheet:	
	70			Dominance rest worksneet.	
2. Prunus serotina		Yes	FACU	Number of Dominant Species	
	10	No	FACU	That Are OBL, FACW, or FAC:	2 (A)
3. Ulmus americana	5	No	FACW	Total Number of Dominant	
4.				Species Across All Strata:	8 (B)
5.				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	25.0% (A/B)
7.				Prevalence Index worksheet:	
	85	=Total Cover		Total % Cover of: M	ultiply by:
– Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 40 x 1 =	40
1. Lonicera morrowii	10	Yes	FACU	FACW species 15 x 2 =	30
2. Rosa multiflora	10	Yes	FACU	FAC species 5 x 3 =	15
3.				FACU species 150 x 4 =	600
4.				UPL species 0 x 5 =	0
				Column Totals: 210 (A)	685 (B)
				Prevalence Index = B/A =	3.26
				Hydrophytic Vegetation Indicators:	
	20	=Total Cover		1 - Rapid Test for Hydrophytic Ve	
– <u>Herb Stratum</u> (Plot size: 5' )		•		2 - Dominance Test is >50%	
1. Mikania scandens	40	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Parthenocissus quinquefolia	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (F	Provide supporting
3. Impatiens capensis	10	 No	FACW	data in Remarks or on a separ	
4. Alliaria petiolata	10	No	FACU	Problematic Hydrophytic Vegetat	ion <sup>1</sup> (Explain)
5. Rosa multiflora	5	No No	FACU	T.	
6. Lonicera morrowii	5	 No	FACU	<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or proble	
7.				Definitions of Vegetation Strata:	
8.				Trace Meantantanta Circ (7.0 and)	
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or diameter at breast height (DBH), regard	
10.					
				Sapling/shrub – Woody plants less t and greater than or equal to 3.28 ft (1	
				, ,	,
	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) p of size, and woody plants less than 3.	
– Woody Vine Stratum (Plot size: 30' )		•			
Celastrus orbiculatus	5	Yes	FACU	<b>Woody vines</b> – All woody vines greatheight.	ter than 3.28 ft in
Toxicodendron radicans	5	Yes	FAC		
3. Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic	
4.	<u> </u>			Vegetation Present? Yes No	Χ
	15	=Total Cover			
				1	

SOIL Sampling Point P5-J Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		<b>ument th</b> x Feature		ator or co	onfirm the absence of	indicator	s.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	.s
0-4	10YR 4/2	100			<u>- 7)    </u>		Loamy/Clayey			
4.16	10VD 5/4	100								
4-16	10YR 5/4	100					Loamy/Clayey			
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL	.=Pore Lin	ing, M=Matr	ix.
Hydric Soil I							Indicators for		-	
Histosol	` '		Dark Surface (					, , ,	RR K, L, M	•
	ipedon (A2)		Polyvalue Belo		ce (S8) (l	LRR R,			x (A16) ( <b>LRI</b>	•
Black His			MLRA 149B	,	/ L DD D	MIDA		-		(LRR K, L, R)
	n Sulfide (A4) Layers (A5)		Thin Dark Surf		-				urface (S8) ( (S9) ( <b>LRR K</b>	•
	Below Dark Surface	(Δ11)	Loamy Mucky	-						(LRR K, L, R)
	rk Surface (A12)	, (, (, , , ,	Loamy Gleyed			( ( , L)				) (MLRA 149B)
	oodic (A17)		Depleted Matri		- –,					side MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		·6)				Surface (F2:	
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	plain in Re	emarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F8	8)					
	edox (S5)		Marl (F10) ( <b>LR</b>				<sup>3</sup> Indicator	s of hydro	phytic veget	ation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)		-	y must be p	
Dandaladia I	(' <b>.f.</b> - <b> </b>  )						unless i	disturbed	or problema	tic.
Type:	.ayer (if observed):									
Depth (in	iches):						Hydric Soil Present	t?	Yes	NoX
Remarks:										



**Upland P5-J - View facing west** 

SITE PHOTOGRAPHS

Segment 8 – Package 5A

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: <u>Sche</u>	enectady	Sampling Date: <u>11/11/21</u>
Applicant/Owner: <u>CHA</u>		State: <u>NY</u>	Sampling Point: <u>U-</u> 2
Investigator(s): Nick Dominic, Justn Williams			
Landform (hillslope, terrace, etc.):	Local relief (concave,	convex, none):	Slope (%):
Subregion (LRR or MLRA): LRR R	Lat: <u>42.71630</u>	Long: <u>-73.96034</u>	Datum: NAD83
Soil Map Unit Name:		NWI classif	ication: PFO
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation NO, Soil NO, or Hydrology	NO significantly disturbed?	Are "Normal Circumstances"	present? Yes 🗵 No 🔲
Are Vegetation NO, Soil NO, or Hydrology		(If needed, explain any answ	
SUMMARY OF FINDINGS – Attach sit	e map showing sampling poi	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No  within a W		<u> </u>
Remarks: (Explain alternative procedures here of Wetland U	r in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; o			il Cracks (B6)
Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)		atterns (B10) Lines (B16)
Saturation (A3)	Marl Deposits (B15)	_	า Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living I	<u> </u>	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 Sc	oils (C6) 🔲 Geomorphi	c Position (D2)
☐ Iron Deposits (B5)	Thin Muck Surface (C7)	☐ Shal <b>l</b> ow Aq	
Inundation Visible on Aerial Imagery (B7)	U Other (Explain in Remarks)	= ' '	raphic Relief (D4)
☐ Sparsely Vegetated Concave Surface (B8)		<u></u> FAC-Neutra	al Test (D5)
Field Observations: Surface Water Present?  Yes  No	Depth (inches): 2		
Water Table Present? Yes X No	Depth (inches): 10	1	
Saturation Present? Yes X No	Depth (inches): 4	Wetland Hydrology Prese	ent? Yes 🗵 No 🗌
(includes capillary fringe)	, , , , ,		
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous inspec	tions), if available:	
Remarks:			

<u>Tree Stratum</u> (Plot size: <u>30</u> )				Sampling Point: <u>U-2</u>			
	Absolute % Cover		nt Indicator Status	Dominance Test worksheet			
1. Acer rubrum	80	YES	▼ FAC ▼	Number of Dominant Species That Are OBL, FACW, or FA			
2			₹	Total Number of Dominant			
3		-		Species Across All Strata:	_ <u>4</u>		
4		_		Percent of Dominant Species			
5				That Are OBL, FACW, or FA			
6							
7				Prevalence Index workshee  Total % Cover of:			
				OBL species			
Sapling/Shrub Stratum (Plot size: 15 )		Total C	,0,00	FACW species			
	20	VEC T		FAC species			
1. <u>Cornus sericea</u>		_		FACU species			
2				UPL species	x 5 =		
3				Column Totals:	(A)(B)		
4				Prevalence Index = B//	\ <b>-</b>		
5							
6			<u> </u>	Hydrophytic Vegetation Inc			
7				1 - Rapid Test for Hydrop 2 - Dominance Test is >5			
		= Total C	Cover	3 - Prevalence Index is ≤			
Herb Stratum (Plot size: 5	(0	T	<b></b>	4 - Morphological Adapta	tions <sup>1</sup> (Provide supporting		
1. Lysimacchia spp.			▼. FACW ▼	data in Remarks or or  Problematic Hydrophytic	•		
2. <u>Lemna spp.</u>		=	▼ FAC ▼	I .			
3. Rosa spp.			▼ FACU ▼	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed			
4				-			
5				Definitions of Vegetation S	rata:		
6				Tree – Woody plants 3 in. (7. at breast height (DBH), regar			
7		-					
8				Sapling/shrub – Woody plar and greater than or equal to			
9							
10				Herb – All herbaceous (non-we size, and woody plants less than			
11			<u> </u>	XX73 2 A11 1	4 2 20 6 :		
12		_	<u>-</u>	Woody vines – All woody vines height.	s greater than 3.28 ft in		
		= Total C	Cover				
Woody Vine Stratum (Plot size: 30 )							
1. Celastrus orbiculatus	5	YES.	▼ UPL ▼				
	_	_		Hydrophytic			
2.		_	<u> </u>	Vegetation Present? Yes	✓ No		
3		_	_				
		- Total C					

SOIL Sampling Point: <u>U-2</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redo	x Feature	<u>s</u>					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-16	10YR/3/1	80	10yr/5/6	20	-		SiLo	Prominent redox		
					_	=				
		. ——			-	<del>-</del>				
					-					
					-	<u>-</u>				
		· <del></del>			-					
					-					
		. <u></u>			-					
ı <u></u> .					-					
					-	-				
<sup>1</sup> Type: C=Co	oncentration. D=Dep	letion. RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.		
Hydric Soil I		<u> </u>	,					for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Belov	w Surface	(S8) ( <b>LR</b>	R R,	2 cm N	Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
	pipedon (A2)		MLRA 149B	•				Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa							
	n Sulfide (A4)		Loamy Mucky N			(, L)		Surface (S7) (LRR K, L, M)		
	Layers (A5)	- (011)	Loamy Gleyed  Depleted Matrix		!)			alue Below Surface (S8) (LRR K, L)		
	l Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Su	. ,				Park Surface (S9) ( <b>LRR K</b> , <b>L</b> ) langanese Masses (F12) ( <b>LRR K</b> , <b>L</b> , <b>R</b> )		
_	lucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)		
	leyed Matrix (S4)		Redox Depress	•	')		_	Spodic (TA6) (MLRA 144A, 145, 149B)		
_	edox (S5)		Redex Bepress	10110 (1 <b>0</b> )				arent Material (F21)		
	Matrix (S6)						_	Shallow Dark Surface (TF12)		
	face (S7) ( <b>LRR R, N</b>	/ILRA 149	<b>B</b> )					(Explain in Remarks)		
<sup>3</sup> Indicators of	hvdrophytic vegetat	tion and w	etland hydrology mus	st be prese	ent. unles	s disturbed	or problemation	c.		
	ayer (if observed):		J		,		1	-		
Type:										
Depth (inc	ches):						Hydric Soil	Present? Yes 🗵 No 🔲		
Remarks:										



Wetland U - View facing west.

Wetland \_ - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 



Wetland U- Soils

Phase 5

SITE PHOTOGRAPHS

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: <u>Sche</u>	enectady S	Sampling Date: <u>11/11/21</u>
Applicant/Owner: <u>CHA</u>		State: <u>NY</u>	Sampling Point: <u>V-4</u>
Investigator(s): Nick Dominic, Justn Williams	Section, Township	, Range: <u>Schenectady</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave,	convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> La	at: <u>42.713707</u>	Long: <u>-73.960089</u>	Datum: NAD83
Soil Map Unit Name:		NWI classificat	tion: <u>PFO</u>
Are climatic / hydrologic conditions on the site typical	I for this time of year? Yes X	No (If no, explain in Rer	marks.)
Are Vegetation NO , Soil NO ▼, or Hydrology NC	significantly disturbed?	Are "Normal Circumstances" pre	esent? Yes 🗵 No 🔲
Are Vegetation NO , Soil NO , or Hydrology N		(If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site	map showing sampling poi	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes   Yes   Wes   Wes   Yes   Yes   Xes   Yes   Yes  Yes	No within a W  If yes, option	·	_
Remarks: (Explain alternative procedures here or i Wetland V			
HYDROLOGY			
Wetland Hydrology Indicators:			ors (minimum of two required)
Primary Indicators (minimum of one is required; che	7	Surface Soil C	` '
Surface Water (A1)  High Water Table (A2)	☑ Water-Stained Leaves (B9) ☑ Aquatic Fauna (B13)	☐ Drainage Patte☐ Moss Trim Line	
Saturation (A3)	Marl Deposits (B15)	<del>-</del>	ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burro	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3) 🔲 Saturation Visi	ble on Aerial Imagery (C9)
Drift Deposits (B3)	= ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	<del>-</del>	essed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	<del>-</del>	, ,
☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐	☐ Thin Muck Surface (C7)☐ Other (Explain in Remarks)	☐ Shallow Aquita☐ Microtopograp	
Sparsely Vegetated Concave Surface (B8)	United (Explain in Remarks)	FAC-Neutral T	
Field Observations:			()
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes X No X	Depth (inches): 10		_
Saturation Present? Yes X No (includes capillary fringe)	Depth (inches): 4	Wetland Hydrology Present	? Yes_⊠_ No □
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspec	tions), if available:	
Remarks:		-	-
Surface water approximately 3", present but not as tes	t site		

<b>/EGETATION –</b> Use scientific names of plants.	Sampling Point: <u>V-4</u>				
<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover		ant Indicator s? Status	Dominance Test worksheet	
1. Acer rubrum	80	YES	FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC	
2			▼	Total Number of Dominant	
3		-		Species Across All Strata:	_ <u>4</u>
4		_	<u>-</u>	Percent of Dominant Species	
5				That Are OBL, FACW, or FAC	
6					
7				Prevalence Index workshee  Total % Cover of:	
				OBL species	
Sapling/Shrub Stratum (Plot size: 15 )		Total	30701	FACW species	
	EΛ	VEC F		FAC species	
1. <u>Cornus sericea</u>		_		FACU species	
2				UPL species	x 5 =
3				Column Totals:	(A)(B)
4				Prevalence Index = B/A	<b>\</b> =
5					
6		-	<u> </u>	Hydrophytic Vegetation Ind	
7		-	<u> </u>	1 - Rapid Test for Hydrop  2 - Dominance Test is >5	
		= Total C	Cover	3 - Prevalence Index is ≤	
Herb Stratum (Plot size: 5 )		6	<b></b>	4 - Morphological Adapta	ations <sup>1</sup> (Provide supporting
1. <u>Onoclea sensibilis</u>			▼. FACW ▼	data in Remarks or or  Droblematic Hydrophytic	•
2. <u>Solidago spp.</u>			▼ FAC ▼	<u>.</u>	
3. Rosa spp.		L-	▼ FACU ▼	<sup>1</sup> Indicators of hydric soil and v	
4					
5				Definitions of Vegetation St	rata:
6		-		Tree – Woody plants 3 in. (7. at breast height (DBH), regard	
7		-			
8	-	-		Sapling/shrub – Woody plan and greater than or equal to 3	
9		-			
10				Herb – All herbaceous (non-wo- size, and woody plants less than	
11		_		XX7 - A 4 A11 1	
12		_	_	Woody vines – All woody vines height.	greater than 3.28 ft in
		= Total C	Cover		
Woody Vine Stratum (Plot size:)					
1			<b>▼</b>		
2.				Hydrophytic	
3.		-		Vegetation Present? Yes	<u> </u>
4.					
		= Total C	Cover		
Remarks: (Include photo numbers here or on a separate s	sheet.)	Total C	50701		
Remarks: (Include photo numbers here or on a separate s	sheet.)				

SOIL Sampling Point: <u>V-4</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			x Feature	<u>s</u> _ 1	. 2	<b>-</b> .	5
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-16	10YR/3/2	90	10yr/4/6	10			SiLo	Prominent redox
					-	_		
	-				-			
					-			
					-	-		
				-				
					-			
					=	=		
								<del></del>
					-	<del>-</del>		<u> </u>
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil I			Па а.	0 (	(OO) (I DE		_	for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) ipedon (A2)		Polyvalue Below		(S8) (LRF	κ к,	_	Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	,	.RR R. MI	LRA 149B)		Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky I				_	Surface (S7) (LRR K, L, M)
_	Layers (A5)		Loamy Gleyed		)			alue Below Surface (S8) ( <b>LRR K</b> , <b>L</b> )
_	Below Dark Surface	e (A11)	Depleted Matrix					Park Surface (S9) (LRR K, L)
	rk Surface (A12)		Redox Dark Su					langanese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depress		(1)		_	ont Floodplain Soils (F19) ( <b>MLRA 149B</b> ) Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
_	edox (S5)		Redux Depless	sions (1 0)				earent Material (F21)
	Matrix (S6)						_	Shallow Dark Surface (TF12)
	face (S7) ( <b>LRR R, N</b>	ILRA 149	<b>B</b> )				Other	(Explain in Remarks)
3								
	hydrophytic vegetat -ayer (if observed):		etland hydrology mus	st be prese	ent, unless	disturbed	or problemati	С.
	.ayer (ii observed):							
Type:	shoo):		-				Uvelvie Seil	Present? Yes 🗵 No 🔲
Depth (inc	nes)		•				nyunc son	Present? Tes 🔼 NO 📘
Remarks:								



Wetland V - View facing west.



Wetland V - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

#### U.S. Army Corps of Engineers

### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE		City/County: Guilder	land/Albany	Sampling Date: 2/22/23			
Applicant/Owner: TDI			State: NY	Sampling Point: U & V Upl			
Investigator(s): J. Greaves & C.Scrivner		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Convex	Slope %: 50			
Subregion (LRR or MLRA): LRR R	Lat: 42.714150		-73.960042	Datum: WGS84			
Soil Map Unit Name: ScB - Scio silt loam, 3			NWI classification:	Dutain			
		Yaa y					
Are climatic / hydrologic conditions on the site		Yes x	` ` `	explain in Remarks.)			
Are Vegetation, Soil, or Hydro			nal Circumstances" prese				
Are Vegetation, Soil, or Hydro			l, explain any answers in				
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID:				
Railroad embankment. Shared upland point	for Wetland U and Wetland V.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)			
Primary Indicators (minimum of one is requir	red; check all that apply)		Surface Soil Cracks	s (B6)			
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns (	•			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	<del>-</del>	Dry-Season Water				
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	,			
Sediment Deposits (B2)	Oxidized Rhizospheres of			n Aerial Imagery (C9)			
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in		Stunted or Stressed Geomorphic Position				
Iron Deposits (B5)	Thin Muck Surface (C7)	Thieu Sons (Go)	Shallow Aquitard (D				
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic R				
Sparsely Vegetated Concave Surface (E	· <del></del> · · ·	,	FAC-Neutral Test (I	` '			
Field Observations:	,		<u> </u>	,			
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):		d Hydrology Present?	Yes No _X_			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, prev	vious inspections), if	available:				
Remarks:							

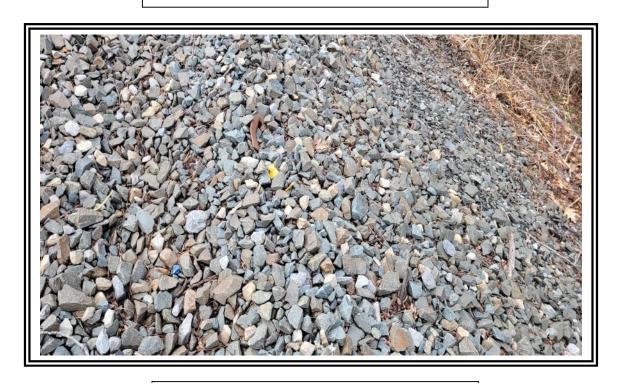
Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	· <del></del>		Domination foot workshoot.
	<u>res</u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
			mat Ale OBL, I AOW, OI I AC (A)
			Total Number of Dominant Species Across All Strata: 5 (B)
			Species Across All Strata.
			Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/E
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
15	Ves	FΔCII	FACW species 10 x 2 = 20
	103	1700	FAC species 10 x 3 = 30
			FACU species 40 x 4 = 160 UPL species 10 x 5 = 50
-			Column Totals: 70 (A) 260 (B
			Prevalence Index = B/A = 3.71
-			
15	-Total Cayor		Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
	- Total Cover		2 - Dominance Test is >50%
05	V	FAOU	
			3 - Prevalence Index is ≤3.0 <sup>1</sup>
			4 - Morphological Adaptations <sup>1</sup> (Provide supporti data in Remarks or on a separate sheet)
10	Yes	FACW	
			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:
			Tree – 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
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
45	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft i
			height.
			Lludrophytic
			Hydrophytic Vegetation
			Hydrophytic Vegetation Present? Yes No _X_
	10 10 15 15 25 10 10	10 Yes  10 =Total Cover  15 Yes  15 =Total Cover  25 Yes  10 Yes  10 Yes	10 Yes FAC  10 =Total Cover  15 Yes FACU  15 =Total Cover  25 Yes FACU  10 Yes UPL  10 Yes FACW

SOIL Sampling Point U & V Upl

Depth	ription: (Describe to Matrix	tne dep		ı <b>ment tı</b> k Featur		itor or co	onfirm the absence o	f indicators.)	ı	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	2
(1101100)	Color (molot)		Color (molet)		1700		Toxtaro		rtomante	<u>,                                      </u>
			_							
<sup>1</sup> Type: C=C	oncentration, D=Deple	tion RM	=Reduced Matrix M		ked Sand		<sup>2</sup> Location: P	L=Pore Lining	n M=Matri	
Hydric Soil		tion, ixivi	-iteduced Matrix, iv	0-Masi	Keu Sanc	Oranis.		or Problemat	_	
-			Dark Surface (	27)				ick (A10) ( <b>LR</b> i	_	
— Histosol					(CO) (	. DD D		. , ,		•
	pipedon (A2)		Polyvalue Belo		ce (58) (I	LKK K,		rairie Redox (		•
Black Hi			MLRA 149B)					icky Peat or P		
	n Sulfide (A4)		Thin Dark Surfa					e Below Surfa		-
	l Layers (A5)		High Chroma S	-				k Surface (S		•
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) ( <b>LR</b> I	R K, L)	Iron-Mar	nganese Mass	ses (F12) (	(LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmor	nt Floodplain S	Soils (F19)	(MLRA 149B)
Mesic S <sub>I</sub>	oodic (A17)		Depleted Matrix	(F3)			Red Par	ent Material (I	F21) <b>(outs</b>	ide MLRA 145
(MLR	A 144A, 145, 149B)		Redox Dark Su	rface (F	6)		Very Sh	allow Dark Su	ırface (F22	<b>:</b> )
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Rem	ıarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F	3)		<u> </u>			
	edox (S5)		 Marl (F10) ( <b>LR</b> l	RK,L)			<sup>3</sup> Indicato	ors of hydroph	ytic vegeta	ation and
	Matrix (S6)			ent Material (F21) (MLRA 145)			wetland hydrology must be present,			
—	,			`	, (	,		disturbed or		
Restrictive I	_ayer (if observed):								<u> </u>	
Type:										
•										
Depth (ir	nches):						Hydric Soil Prese	nt? Y	es	No <u>X</u>
Remarks:										
Soils consist	of railroad ballast.									



Upland U & V - View facing east.



Upland U & V - Soils

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Albany	<u> </u>	Samplin	g Date:	July 13, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling	g Point:	DP-FJ		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	: Altamont					
Landform (hillslope,	-	Depression			f (concave, conv		Concave		Slope (%): 1		
		LRR R		Lat: 42.710062°	•	Long: 73.96017			Clope (%)1		
Subregion (LRR or N	-		. 45 paraont		<u>.*N L</u>	_011g: 13.80011		Not M			
Soil Map Unit Name		fine sandy loam, 8					NWI classification		apped		
Are climatic / hydrolo	-		-			(If no	o, explain in Remar				
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	]? A	re "Normal Circur	mstances" present	? Y	/es X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	needed, explain	any answers in Re	emarks.)			
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, tr	ansects, impo	ortant fo	eatures, etc.		
Hydrophytic Vege	etation Present?	Yes	<b>X</b> No		Is the Sample	ed Area					
Hydric Soil Preser		Yes	X No		within a Wetla		Yes X	No _			
Wetland Hydrolog		Yes	X No		If yes, optiona	l Wetland Site ID	): <u>FJ</u>				
HYDROLOGY											
Wetland Hydrolog	av Indicators:						Secondary Indicate	ere (minim	um of two required)		
		s is required; check	all that apply)						um of two required)		
Surface Water		e is required; check		-Stained Leaves (E	PO)		Surface Soil Cracks (B6)  X Drainage Patterns (B10)				
X High Water T				-Stained Leaves (E ic Fauna (B13)	59)		. Moss Trim Lines				
X Saturation (A				Aquatic Fauna (B13) Marl Deposits (B15)			Dry-Season Wate		C:2)		
Water Marks	•			gen Sulfide Odor (	(C1)	_	Crayfish Burrows		32)		
Sediment De				ed Rhizospheres		(C3)	Saturation Visible		I Imagery (C9)		
Drift Deposits				nce of Reduced Iro	=		Stunted or Stress				
Algal Mat or 0	Crust (B4)		Recen	nt Iron Reduction in	n Tilled Soils (Co	6) <u>X</u>	Geomorphic Posi	ition (D2)			
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aquitard	(D3)			
	isible on Aerial Im		Other	(Explain in Remarl	rks)	_	Microtopographic	Relief (D	4)		
Sparsely Veg	getated Concave	Surface (B8)					FAC-Neutral Tes	t (D5)			
Field Observation											
Surface Water Pre		Yes No									
Water Table Prese		Yes X No	·			Wetland Hydi	rology Present?	Yes _	X No		
Saturation Present		Yes X No	Depth	ı (inches): 4							
(includes capillary  Describe Recorde		auge, monitoring we	ell aerial phot	os previous inspe	ections) if availa	ahle.					
D0301100 11000.00	d Data (ottoatt. g.	augo, montoning	ell, acriai prio.	Jo, provious meps	ottorioj, ii ava	ibic.					
Remarks: Wetland hydrolo	igy present at th	ne Data Point.									

ee Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
Acer rubrum	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)			
Prunus serotina	10	Yes	FACU		(/ //			
				Total Number of Dominant Species Across All Strata:	4 (B)			
					(5)			
				Percent of Dominant Species That Are OBL, FACW, or FAC:	75 (A/B			
				Prevalence Index worksheet:				
				Total % Cover of:	Multiply by:			
		= Total Cover			x 1 = <u>55</u>			
oling/Shrub Stratum (Plot size: 15 ft.)				•	x 2 = 80			
				FAC species 10	x 3 = <u>30</u>			
				FACU species 15				
				UPL species 0	x 5 = 0			
	<u> </u>			Column Totals: 120	(A) <u>225</u> (B			
				Prevalence Index = B/A =	1.87			
				Hydrophytic Vegetation Indica				
				1 - Rapid Test for Hydrophy X 2 - Dominance Test is >506				
	0	= Total Cover		X 3 - Prevalence Index is ≤3.				
b Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation				
Symplocarpus foetidus	55	Yes	OBL	data in Remarks or on a	a separate sheet)			
Onoclea sensibilis	30		FACW	Problematic Hydrophytic V	egetation <sup>1</sup> (Explain)			
Circaea canadensis	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
Impatiens capensis			FACW	be present, unless disturbed or p	problematic.			
				Definitions of Vegetation Strat	a:			
				Tree – Woody plants 3 in. (7.6 c	m) or more in diameter			
				at breast height (DBH), regardle	ss of height.			
				Sapling/shrub – Woody plants	less than 3 in. DBH			
				and greater than or equal to 3.28	3 ft (1 m) tall.			
				Herb – All herbaceous (non-woo	ody) plants, regardless of			
)				size, and woody plants less than	3.28 ft tall.			
·				Woody vines – All woody vines	greater than 3.28 ft in			
				height.				
	100	= Total Cover						
ody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
				Vegetation Present? Yes	X No			
				Present? Yes	NO			
	0	= Total Cove						

SOIL Sampling Point: DP-FJ Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay 0-6 10YR 4/1 10YR 6/3 6-12 80 10YR 6/3 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland FJ- View facing South.



**PEM Wetland FJ- Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Cour	nty: Albany	/	Sampling Date:	July 13, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-FJ-Upland	
Investigator(s):	Tristen Peterson	n		Section, To	ownship, Range	e: Altamont			
Landform (hillslope,	-	Hillslope			f (concave, con			Slope (%): 3	
					•			Slope (%)3	
Subregion (LRR or I	-	LRR R		Lat: 42.710082	°N i	Long: 73.960240°W			
Soil Map Unit Name	: - Riverhead	fine sandy loam, 8	to 15 percent :	slopes		NWI clas	sification: Not N	Mapped	
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of ye	ar? Yes	X No	(If no, explain	n Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	re "Normal Circumstances	present?	Yes <b>X</b> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (II	f needed, explain any answ	ers in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations, transect	s, important t	features, etc.	
Lludrophytic Vogo	etation Procent?	Vos	No	Y	la the Sample	-d Aron			
Hydrophytic Vege Hydric Soil Preser		_	No No	x	Is the Sample within a Wetl		No	X	
Wetland Hydrolog		_	No		If yes optiona	Il Wetland Site ID:	<del></del>		
		dures here or in a s			II yes, opnona	II Welland Site ID.			
HYDROLOGY	any Indicators:					Secondar	y ladicatore (minir	our of two required)	
Wetland Hydrolo								num of two required)	
Primary Indicators (minimum of one is required; check all that apply)						· · · · · · · · · · · · · · · · · · ·	Soil Cracks (B6)		
Surface Water 7				Stained Leaves (I	B9)		e Patterns (B10)		
High Water T				c Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A Water Marks	-			eposits (B15) gen Sulfide Odor (	(C1)	Dry-Season Water Table (C2)			
Sediment De	-			ed Rhizospheres		Crayfish Burrows (C8) ts (C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits	,		_	ice of Reduced Ir	=	Stunted or Stressed Plants (D1)			
Algal Mat or			_	t Iron Reduction in	, ,	<del>_</del>			
Iron Deposits	` ,			uck Surface (C7)	•	-	Aquitard (D3)		
l —	isible on Aerial Im	nagery (B7)		Explain in Remar			oographic Relief (I	O4)	
Sparsely Veg	getated Concave	Surface (B8)				FAC-Ne	utral Test (D5)		
Field Observation	ns:								
Surface Water Pre	esent?	Yes No							
Water Table Prese	ent?	Yes No				Wetland Hydrology Pr	esent? Yes	No <u>X</u>	
Saturation Presen		Yes No	X Depth	(inches):					
(includes capillary			U del photo	od-on lange	'' -\''' evelle				
Describe Recorde	d Data (Siream g	auge, monitoring w	ell, aeriai priou	os, previous irispe	ections), ii avalid	adie:			
Remarks:									
No wetland hydr	rology present a	at the Data Point	•						

<b>EGETATION</b> – Use scientific names of plan	ii.			3	ampling Point: DP-F	J-Upland
ree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer saccharum	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2. 				Total Number of Dominant Species Across All Strata:	4	(B)
4				Percent of Dominant Species		` ′
5.				That Are OBL, FACW, or FAC:	0	(A/B
6				Prevalence Index worksheet: Total % Cover of:	Multiply by:	
		= Total Cover		OBL species 0		
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0	
Hamamelis virginiana	15	Yes	FACU	FAC species 0	x 3 = 0	
				FACU species 40	x 4 = 160	
2.				UPL species 20	x 5 = 100	
3.				Column Totals: 60	(A) <u>260</u>	(B)
5.				Prevalence Index = B/A =	4.33	
5.				Hydrophytic Vegetation Indica	tors:	
7				1 - Rapid Test for Hydrophy	tic Vegetation	
				2 - Dominance Test is >50%		
	15	= Total Cover		3 - Prevalence Index is ≤3.0		
erb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptatio data in Remarks or on a		ng
Parthenocissus quinquefolia	15	Yes	FACU			
2. Dennstaedtia punctilobula		Yes	UPL	Problematic Hydrophytic Ve		
3.				<sup>1</sup> Indicators of hydric soil and wet		
4				be present, unless disturbed or p	roblematic.	
5				Definitions of Vegetation Strate	a:	
5				Tree – Woody plants 3 in. (7.6 cr	•	er
7.				at breast height (DBH), regardles	ss of height.	
3				Sapling/shrub – Woody plants lo and greater than or equal to 3.28		
)				Herb – All herbaceous (non-woo		s of
10.				size, and woody plants less than		
11 12.				Woody vines – All woody vines of height.	greater than 3.28 ft in	
	35	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
ı	<u> </u>					
				Hydrophytic		
2				Vegetation	No X	
3				Present? Yes _	NO	•
4	0	= Total Cove				
Described (Include the second to the second		= Total Cove	:1	1		
Remarks: (Include photo numbers here or on a separa No hydrophytic vegetation found at the Data Po	<u> </u>					
The Try are project and Tourist at the Data 1 of						

SOIL Sampling Point: DP-FJ-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 5/4 100 Silt <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction Hydric Soil Present? Yes No X Depth (inches): 8 Remarks: Could not dig past 8 inches due to root compaction, no hydric soils present at the Data Point.



Upland FJ- View facing North.



**Upland FJ- Soils** 

Segment 8 – Package 5A

# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: <u>Sche</u>	enectady	Sampling Date: <u>11/15/21</u>
Applicant/Owner: <u>CHA</u>		State: <u>NY</u>	Sampling Point: X-1
Investigator(s): Nick Dominic, Justn Williams			
Landform (hillslope, terrace, etc.):	Local relief (concave,	convex, none):	Slope (%):
Subregion (LRR or MLRA): LRR R	Lat: <u>42.70814</u>	Long: <u>-73.95979</u>	Datum: NAD83
Soil Map Unit Name:		NWI classif	ication: <u>PFM/PFO</u>
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes X	No (If no, explain in	Remarks.)
Are Vegetation NO, Soil NO, or Hydrology	NO significantly disturbed?	Are "Normal Circumstances"	present? Yes X No D
Are Vegetation NO, Soil NO, or Hydrology	NO naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing sampling poi	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No  within a W		<u> </u>
Remarks: (Explain alternative procedures here of Wetland X	or in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; Surface Water (A1)			il Cracks (B6)
Surface Water (A1)  High Water Table (A2)	<ul><li>Water-Stained Leaves (B9)</li><li>☐ Aquatic Fauna (B13)</li></ul>		atterns (B10) Lines (B16)
Saturation (A3)	Marl Deposits (B15)	_	n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living I	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 Sc	<del>-</del>	c Position (D2)
☐ Iron Deposits (B5)	Thin Muck Surface (C7)	☐ Shallow Aq	
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)	☐ Microtopog	raphic Relief (D4)
Field Observations:		FAC-Neutra	
	Depth (inches): 6		
Water Table Present? Yes X	Depth (inches): 2		
Saturation Present? Yes X No	Depth (inches): 0	Wetland Hydrology Prese	ent? Yes 🗵 No 🗌
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ring well aerial photos, previous inspec	tions) if available:	
December (coorded Data (casalii gaage, incinted	mig well, deficie process, provided inopes	delle), il divallable!	
Remarks:			

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

Inticitator Status    FACU   FACU   That Are OBL, FACW, or FAC: 3
That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant Species Across All Strata: 4 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species x 1 = FACW species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  A - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic species in the present unless disturbed or problematic species is problematic.
Total Number of Dominant Species Across All Strata:
Species Across All Strata: 4 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Indicators of hydric soil and wetland hydrology must be present upless disturbed or problematic
That Are OBL, FACW, or FAC: 75 (A/B  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species x 1 =
That Are OBL, FACW, or FAC: 75 (A/B  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species x 1 =
Prevalence Index worksheet:
Total % Cover of: Multiply by:  OBL species
OBL species
FACW species
FAC species
FACU species
UPL species x 5 = Column Totals: (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supportind data in Remarks or on a separate sheet)  FACW  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
Column Totals:
Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supportindata in Remarks or on a separate sheet)  FACW  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present upless disturbed or problematic
1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  FACW  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present upless disturbed or problematic
2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  FACW  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present upless disturbed or problematic
3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  FACW  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present upless disturbed or problematic
4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  FACW  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present upless disturbed or problematic
Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must  be present upless disturbed or problematic
¹Indicators of hydric soil and wetland hydrology must
he present juniess disturbed or problematic
pe present, unless disturbed or problematic.
Be present, amess distarbed of problemation
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter
at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH
and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
-
Woody vines – All woody vines greater than 3.28 ft in height.
Cover
<b>ਜ</b> ੁਜ
Hydrophytic
─────────────────────────────────────
<u></u>
Cover
30701

SOIL Sampling Point: X-1

Profile Desc	ription: (Describe	to the de	th needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	<u>s</u>			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-10	10YR/3/2	80	7.5yr/5/8	20	-		SL	Prominent
						-		
					_	=		
						<u>-</u>		
					_	-		
					-	-		
					-	-		
						-		
ı <del></del>					-			
ı <del></del>					-			
		letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil I							_	for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B	•	DD D M	. D.A. 440D\		Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)			Loamy Mucky N			λ, ∟)		Surface (S7) ( <b>LRR K, L, M</b> ) alue Below Surface (S8) ( <b>LRR K, L</b> )
Stratified Layers (A5) Depleted Below Dark Surface (A11)			Depleted Matrix		.)			Park Surface (S9) (LRR K, L)
Thick Dark Surface (A11)			Redox Dark Su	. ,				langanese Masses (F12) ( <b>LRR K, L, R</b> )
Sandy Mucky Mineral (S1)			Depleted Dark Surface (F7)					ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depressions (F8)				_	Spodic (TA6) (MLRA 144A, 145, 149B)
_	edox (S5)		Tredox Depressions (1 0)					arent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
	face (S7) ( <b>LRR R, N</b>	/ILRA 149	<b>B</b> )					(Explain in Remarks)
<sup>3</sup> Indicators of	hydrophytic vegetat	tion and w	etland hydrology mus	st be prese	ent, unles	s disturbed	or problemation	c <b>.</b>
	ayer (if observed):		, ,,				<u> </u>	
Type: <u>rocl</u>	<							
Depth (inc	ches): <u>10</u>						Hydric Soil	Present? Yes X No \(\sum_{\text{\text{\text{No}}}}\)
Remarks:								



Wetland X - View facing west.

Wetland X - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 



Wetland X - Soils

Phase 5

SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

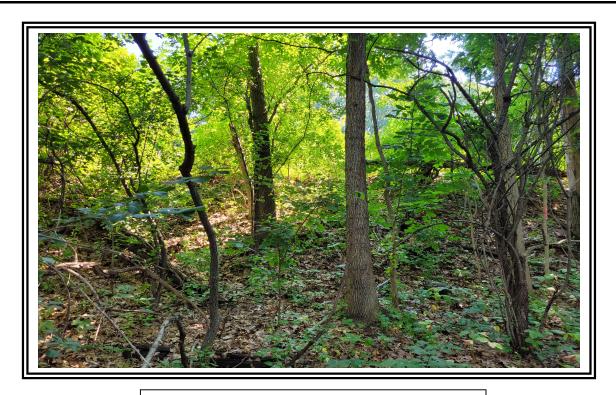
Project/Site: 21268 - CHPE	City/County: Schenectady Sampling Date:	: 11/15/2021					
Applicant/Owner: CHA	 State: NY Sampling Poi						
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:						
Landform (hillside, terrace, etc.):		pe %:					
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.7							
Soil Map Unit Name:	NWI classification: Upland						
Are climatic / hydrologic conditions on the site typical for this til		rko )					
Are Vegetation No , Soil No , or Hydrology No signi		_ 100					
Are Vegetation No, Soil No, or Hydrology No natur							
SUMMARY OF FINDINGS – Attach site map sho	owing sampling point locations, transects, important feat	ures, etc.					
Hydric Soil Present? Yes No	X Is the Sampled Area  X within a Wetland? Yes No X  If yes, optional Wetland Site ID:						
Upland for WL X							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two	required)					
Primary Indicators (minimum of one is required; check all that							
	ned Leaves (B9) Drainage Patterns (B10)						
High Water Table (A2)  Aquatic Fa							
Saturation (A3)MarI Depos							
	Sulfide Odor (C1) Crayfish Burrows (C8)	n. (CO)					
	hizospheres on Living Roots (C3) Saturation Visible on Aerial Imager	y (C9)					
	of Reduced Iron (C4) Stunted or Stressed Plants (D1)						
? Sparsely Vegetated Concave Surface (B8)	lain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)						
	FAC-Neutial Test (D5)						
Field Observations:							
	epth (inches):						
Water Table Present?         Yes         No X         Do           Saturation Present?         Yes         No X         Do	aptin (inches):   Westland Underslage: Present?	N. V					
Saturation Present? Yes No X Do (includes capillary fringe)	epth (inches):   Wetland Hydrology Present? Yes	No <u>X</u>					
Describe Recorded Data (stream gauge, monitoring well, aeri	al photos, pravious inspections) if available:						
C	ai priotos, previous inspections), ii available.						
Remarks:							

## $\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

<u>Tree Stratum</u> (Plot size: 30 )	Absolute	Dominant	Indicator	
	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus rubra	40	Yes	FACU	Number of Dominant Species
2. Carya ovata	20	Yes	FACU	That Are OBL, FACW, or FAC:(A)
3. Acer sacchrum	15	Yes	FACU	Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 20.0% (A/B)
7				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15	)			OBL species 0 x 1 = 0
1. Rhamnus cathartica	20	Yes	FAC	FACW species 0 x 2 = 0
2				FAC species 20 x 3 = 60
3.	<u></u>			FACU species 75 x 4 = 300
1.	, <u> </u>			UPL species 5 x 5 = 25
5.				Column Totals: 100 (A) 385 (B)
3.	-			Prevalence Index = B/A = 3.85
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
<u></u> -				3 - Prevalence Index is ≤3.0 <sup>1</sup>
				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. 4.	. ———			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9. 10.	. ——			
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and greater than or equal to 3.26 ft (1 fil) tall.
12	. ——			Herb – All herbaceous (non-woody) plants, regardless
		=Total Cover		of size, and woody plants less than 3.28 ft tall.
A	)	.,		Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30	_			
1. Celastrus orbiculatus	5	Yes	UPL	height.
1. Celastrus orbiculatus 2.	5	Yes	UPL	
1. Celastrus orbiculatus	5	Yes		Hydrophytic Vegetation
1. Celastrus orbiculatus 2.	- ————————————————————————————————————	Yes	UPL	Hydrophytic

SOIL Sampling Point X-3 UPL

		the der				ator or c	onfirm the absence of indicato	rs.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc <sup>2</sup>	Texture	Remarks
0-14	10yr 4/2	100					Loamy/Clayey	
		_						
	<u> </u>							
	·							
1- 0-0-				:2.14==		. 0	21	
	ncentration, D=Deple	tion, Kivi	=Reduced Matrix, iv	/IS=Mas	ked Sand	d Grains.		
Hydric Soil I			5 5 .	<u> </u>	(20) (	·	Indicators for Probler	<del>-</del>
Histosol (			Polyvalue Belo		ce (S8) (I	∟RR K,		(LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)	,				ox (A16) ( <b>LRR K, L, R</b> )
Black His	` '		Thin Dark Surfa					or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I			₹ K, L)	Thin Dark Surface	
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matrix					ain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su					6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark				Red Parent Materia	
	edox (S5)		Redox Depress	,	8)		Very Shallow Dark	
	Matrix (S6)		Marl (F10) ( <b>LR</b> l	RK, L)			Other (Explain in R	Remarks)
Dark Sur	face (S7)							
a ,								
		n and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	turbed or problematic.	
	ayer (if observed):							
Type: _	rock							
Depth (in	ches):	14					Hydric Soil Present?	Yes No _x_
							2.0 to include the NRCS Field Ir	ndicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://wv	ww.nrcs.u	usda.gov/Internet/৮১	3E_DOC	JUMENI	S/nrcs14	l2p2_051293.docx)	



**Upland X - View facing northeast.** 

Upland X - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 



Upland X – Soils

Phase 5

SITE PHOTOGRAPHS

#### U.S. Army Corps of Engineers

#### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE	City/County: Guilderland/Albany Sampling Date: 8/25/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-R Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): concave Slope %: 15
Subregion (LRR or MLRA): LRR R Lat: 42 42 27N	<del>-</del>
Soil Map Unit Name: Ug - Udorthents, loamy	NWI classification: PUB
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrologysignificant	<del></del> <del></del>
Are Vegetation, Soil, or Hydrologynaturally p	
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes x No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: near flag P5-R-1
Remarks: (Explain alternative procedures here or in a separate regional pond, likely man-made.	port.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	ly) Surface Soil Cracks (B6)
x Surface Water (A1) x Water-Stained L	Leaves (B9) Drainage Patterns (B10)
X High Water Table (A2) x Aquatic Fauna (I	<u> </u>
x Saturation (A3) Marl Deposits (E	<u>—</u> ·
Water Marks (B1) Hydrogen Sulfide	<u>—</u> · · · · · · · · · · · · · · · · · · ·
<u>—</u>	spheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Rec	
<del></del>	duction in Tilled Soils (C6) <u>x</u> Geomorphic Position (D2)
Iron Deposits (B5)Thin Muck Surfa	
x Inundation Visible on Aerial Imagery (B7) Other (Explain in	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	(n=h==), 40
	(inches): 18 (inches): 0
<del></del> · · ·	(inches): 0 Wetland Hydrology Present? Yes X No
Saturation Present? Yes x No Depth (includes capillary fringe)	Wetialia nyulology Flesent: 165 No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos. previous inspections). if available:
	5005, proviousspsss.,; 2.122.15.
Remarks:	

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

Status   Dominance Test worksheet:   Number of Dominant Species   That Are OBL, FACW, or FAC:   2
Number of Dominant Species
Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  100.0% (A/  Prevalence Index worksheet:  Total % Cover of:  Multiply by:  OBL species  10
Species Across All Strata: 2 (B)
Percent of Dominant Species   That Are OBL, FACW, or FAC:   100.0% (A/
That Are OBL, FACW, or FAC: 100.0% (A/  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 10 x 1 = 10  FACW species 8 x 2 = 16  FAC species 0 x 3 = 0  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
Prevalence Index worksheet:    Total % Cover of:
Total % Cover of:         Multiply by:           OBL species         10         x 1 = 10           FACW species         8         x 2 = 16           FAC species         0         x 3 = 0           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         18         (A)         26           Prevalence Index         = B/A = 1.44
OBL species 10 x 1 = 10  FACW species 8 x 2 = 16  FAC species 0 x 3 = 0  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
FACW species 8 x 2 = 16  FAC species 0 x 3 = 0  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
FAC species 0 x 3 = 0  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
UPL species 0 x 5 = 0  Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
Column Totals: 18 (A) 26 (  Prevalence Index = B/A = 1.44
Prevalence Index = B/A = 1.44
<u> </u>
Hydrophytic Vegetation Indicators:
•
Cover 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
es OBL 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)
Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<sup>1</sup> Indicators of hydric soil and wetland hydrology mus
be present, unless disturbed or problematic.
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in
diameter at breast height (DBH), regardless of heigh
Sapling/shrub – Woody plants less than 3 in. DBH
and greater than or equal to 3.28 ft (1 m) tall.
Harb All barbassaus (non woods) plants regardle
<ul> <li>Herb – All herbaceous (non-woody) plants, regardle</li> <li>Cover of size, and woody plants less than 3.28 ft tall.</li> </ul>
Washing Allines during master than 2 20 ft
Woody vines – All woody vines greater than 3.28 ft height.
Hydrophytic
Hydrophytic Vegetation
Hydrophytic
_

SOIL Sampling Point P5-R Wet

		the de				tor or co	onfirm the absence o	findicator	s.)	
Depth	Matrix			x Featur		. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion. RM	=Reduced Matrix. N	 IS=Masl	ked Sand	Grains.	<sup>2</sup> Location: F	L=Pore Lin	ing, M=Matrix	ζ.
Hydric Soil Ir		,	, , , , , , , , , , , , , , , , , , , ,						natic Hydric S	
Histosol (			Dark Surface (	S7)					LRR K, L, ML	
	pedon (A2)		Polyvalue Belo		ce (S8) (I	RR R			x (A16) ( <b>LRR</b>	•
Black His			MLRA 149B		00 (00) (.				r Peat (S3) ( <b>L</b>	•
	Sulfide (A4)		Thin Dark Surf		(I RR R	MI RA 1		-	urface (S8) ( <b>L</b>	-
	Layers (A5)		High Chroma S						(S9) ( <b>LRR K</b> ,	-
	Below Dark Surface	(Δ11)	Loamy Mucky						asses (F12) (I	-
	k Surface (A12)	(A11)	Loamy Gleyed			<b>₹ (₹, ∟</b> )				(MLRA 149B)
					12)					
	odic (A17)		Depleted Matri		-6)					ide MLRA 145)
	144A, 145, 149B)		Redox Dark Su						Surface (F22)	)
	icky Mineral (S1)		Depleted Dark				— Other (E	xplain in Re	emarks)	
	eyed Matrix (S4)		Redox Depress		8)		31			At a market
Sandy Re	, ,		Marl (F10) ( <b>LR</b>		(O.4) (BAL F			-	phytic vegeta	
Stripped i	Matrix (S6)		Red Parent Ma	iteriai (F	21) (MLF	KA 145)			y must be pre	
5	// L D						uniess	aisturbea	or problemati	C.
	ayer (if observed):									
Type: _										
Depth (in	ches):						Hydric Soil Prese	nt?	Yes x	No
Remarks:										
	cted due to standing	water a	nd the presence of s	ubmerg	ed aquat	ic plants.				
				_						



Wetland P5-R (PUB) - View facing north.

Wetland P5-R - Soils (no photo)

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

#### U.S. Army Corps of Engineers

#### WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

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

Project/Site: CHPE	(	City/County: Guilder	land/Albany	Sampling Date: 8/25/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P5-R Upl		
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u></u>		
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex, none): convex	Slope %: 45		
Subregion (LRR or MLRA): LRR R	Lat: 42 42 27N	•	-73 57 34W	Datum: WGS84		
Soil Map Unit Name: Ug - Udorthents, loamy			NWI classification:			
Are climatic / hydrologic conditions on the site	•	Vac v	<del></del>	explain in Remarks.)		
		Yes x	<del></del> `	,		
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese 			
Are Vegetation, Soil, or Hydrol	' <u></u>		d, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: Near flag	g P5-R-1		
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Mowed road/pathway.						
HYDROLOGY						
Wetland Hydrology Indicators:	La la cala all that are mind			minimum of two required)		
Primary Indicators (minimum of one is require		20)	Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (B	.9)	Drainage Patterns (B10)  Moss Trim Lines (B16)			
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres or	•				
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '		orphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7						
Sparsely Vegetated Concave Surface (B	· — · · · · ·	,	FAC-Neutral Test (	D5)		
Field Observations:			<u>. —                                     </u>			
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No _X_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						
Remarks:						

## **VEGETATION** – Use scientific names of plants. Sampling Point: P5-R Upl

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:					
1.									
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)					
3. 4.				Total Number of Dominant Species Across All Strata:(B)					
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)					
7				Prevalence Index worksheet:					
		=Total Cover		Total % Cover of: Multiply by:					
Sapling/Shrub Stratum (Plot size:)				OBL species0 x 1 =0					
1				FACW species 5 x 2 = 10					
2				FAC species0 x 3 =0					
3.	-			FACU species80 x 4 =320					
4				UPL species0 x 5 =0					
5.				Column Totals: 85 (A) 330 (B)					
6.				Prevalence Index = B/A = 3.88					
7.				Hydrophytic Vegetation Indicators:					
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation					
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%					
1. Poa pratensis	75	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>					
2. Pilea pumila	5	No No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting					
3. Celastrus orbiculatus	5	No	FACU	data in Remarks or on a separate sheet)					
4.			17100	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.				Tana Mandunlanta 2 in 77 C and an mana in					
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.					
10.				Sanling/ehruh - Woody plants less than 3 in DRH					
11.	6			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.					
12				Herb – All herbaceous (non-woody) plants, regardless					
	85	=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	rate sheet )	_							
Tremains. (include prioto numbers here of on a sepa	rate sileet.)								

SOIL Sampling Point P5-R Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		<b>ument th</b> x Feature		itor or co	onfirm the absence	of indicat	f indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup> Loc <sup>2</sup> Texture		Texture		Remark	(S	
0-16	10YR 3/4	100					Sandy				
0-16	10113/4	100					Sandy				
								_			
										_	
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	1S=Masl	ked Sand	l Grains.	<sup>2</sup> Location:	PL=Pore	Lining, M=Mat	rix.	
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface (	S7)			2 cm N	luck (A10	) (LRR K, L, N	ILRA 149B)	
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	LRR R,	Coast	Prairie Re	dox (A16) ( <b>LR</b>	<b>R K</b> , <b>L</b> , <b>R</b> )	
Black His	stic (A3)		MLRA 149B	)			5 cm N	lucky Pea	t or Peat (S3)	(LRR K, L, R)	
Hydrogei	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	<b>49B</b> ) Polyva	lue Below	Surface (S8)	(LRR K, L)	
	Layers (A5)		High Chroma S				Thin D	ark Surfac	e (S9) ( <b>LRR F</b>	(, L)	
Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral (	(F1) ( <b>LRI</b>	R K, L)	Iron-M	anganese	Masses (F12)	(LRR K, L, R)	
	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedm	ont Floodp	olain Soils (F19	9) (MLRA 149B)	
	oodic (A17)		Depleted Matri							side MLRA 145)	
(MLRA 144A, 145, 149B)			Redox Dark Su		-		Very Shallow Dark Surface (F22)				
	ucky Mineral (S1)		Depleted Dark				Other	Explain in	Remarks)		
	leyed Matrix (S4)		Redox Depress		3)		3, ,,				
Sandy Redox (S5)			Marl (F10) ( <b>LR</b>		04) (84) 5		<sup>3</sup> Indicators of hydrophytic vegetation and				
Stripped Matrix (S6)			Red Parent Ma	iteriai (F.	21) (WLF	KA 145)	wetland hydrology must be present, unless disturbed or problematic.				
Postrictivo I	.ayer (if observed):						unie	ss disturbe	ed or problema	auc.	
Type:	.ayer (ii observeu).										
-									.,		
Depth (in	iches):						Hydric Soil Pres	ent?	Yes	. No <u>X</u>	
Remarks:											