

Project/Site:	Champlain Hu	dson Power Expres	s	City/Count	tv: Ne	w Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt E	ngineering Gro	pup		St	ate: New York	Sampling Point:	WI-1W
Investigator(s):		MA, KC		Section, To	ownship, Ra	nge:	Town o	of New Scotland	
Landform (hillslope, te	rrace, etc):	Lowland	Local r	elief (concav	ve. convex. I	none):	concave	Slop	e (%): 0-3
Subregion (LRR or ML	_RA):	LRR R	Lat:	42.60	0369744	Long:	-73.895050	78 Datu	um: WGS 1984
Soil Map Unit Name:			Scio silt loarr	ı			NWI classification	on:	
Are climatic / hydrolog	ic conditions on the	e site typical for this	time of year?	Yes X	No	(If no,	– , explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significantl	ly disturbed	? .	Are "Normal Cir	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	,	(If needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map sl	nowing sam	npling po	int locatio	ons, transed	cts, important	features, etc.	
Hydrophytic Vegetat	tion Present?	Yes X	No	<u> </u>	Is the Sam	nled Area		•	
Hydric Soil Present?	2		_ No	_	within a W	atland?	Ves X	No	
Wetland Hydrology	Present?	Yes X	_ No	_	If ves optio	nal Wetland Site		WI_1W_PEO	—
Wettand Hydrology				_	n 300, opao				
Remarks: (Explain a PFO p	alternative procedur oint within wetland	res here or in a sep I adjacent to mowe	arate report.) d field and indu	ustrial area.					
Identified as	Wetland El	DR-I on wetl	and map	ping an	d in rep	ort text.			
					•				
Wetland Undralage									
wetland Hydrology	/ Indicators:		-4					- 1 1 - 1	
Primary Indicators (I		juired; check all tha	at apply)	d Lagyag /D	20)		Secondary Indica	ators (minimum of	two required)
X Uich Water Tek	(AT)	<u>^</u>	Acustic Four		59)		Surface Sol		
A Fight Water fac			Aqualic Faun	18 (D13) 5 (D15)			Drainage Pa	inco (P16)	
	/ >1\		Wan Depusits	s (BID) Jeda Odar ((C1)			Motor Toble (C2)	`
Water Marks (E	21) poite (B2)	<u> </u>	Ovidized Phi		ol) Doliving Boy	$rac{(C2)}{}$	Dry-Season		1
Sediment Depo		<u>^</u>	Dragonag of L	Zospheres o Reduced Ire	on Living Roo	JIS (C3)	Crayiish Bu	liows (Co)	magan((C0)
Algol Mat or Cr	DJ) rust (B4)		Presence or r	Reduced IIO		(C6)	Saturation V	Stroseod Plante /	nagery (C9)
	usi (D4) B5)		Thin Muck Su		r Tilleu Solis	(00)	Geomorphic	Diresseu Flants (L Desition (D2)	,,,
Inundation Visi	ble on Aerial Image	en/ (B7)	Other (Explai	in in Remark	ke)		Shallow Act	uitard (D3)	
Sparsely Veget	tated Concave Surf	face (B8)			(3)		Microtonogr	ranhic Relief (D4)	
		400 (20)					FAC-Neutra	ll Test (D5)	
Field Observations	5:								
Surface Water Pres	ent? Yes	<u> X No </u>	_ Depth (inch	es): (0.25				
Water Table Presen	t? Yes	<u>X</u> No	_ Depth (inch	es):	3				
Saturation Present?	Yes	XNo	_ Depth (inche	es):	0	Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fr	inge)								
Describe Recorded	Data (stream gaug	e, monitoring well.	aerial photos, r	previous insi	pections), if a	available:			
		-,			,,				
Remarks:									

VEGETATION - Use scientific names of plants.					Sam	pli ng Poir	nt: <u>WI</u>	-1W
				Dominance Test w	orksheet:			
				Number of Dominal	nt Species			
				That Are OBL FAC	W or FAC		5	(A)
	Absolute	Dominant	Indicator		11, 01 1710.			
Tree Stratum (Plot size: <u>30 Feet</u>)	% Cover	Species?	Status	Total Number of Do	minant			
1. Fraxinus pennsylvanica / Green ash		Yes	FACW	Species Across All	Strata:		7	(B)
2. Quercus rubra / Northern red oak	10	Yes	FACU		Sirala.			_ (0)
3				Borcont of Domina	at Spacios			
4							71 4	(\ / \ \
5				That Are OBL, FAC	W, OF FAC.		/1.4	_ (AVD)
6				Prevalence Index	worksheet:			
7				Total % Cover	of:	M [,]	ultiply by:	
	40	= Total Cov	er	OBL species	0	x 1 =	0	_
Sapling/Shrub Stratum (Plot size:15 Feet)				FACW species	40	×2=	80	
1. Cornus racemosa / Gray dogwood	10	Yes	FAC	FAC species	20	· ~	60	—
2. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FACU species	15	· x 4 =	60	—
3. Viburnum lentago / Nanny-berry	5	Yes	FAC	LIPL species	0	· ^	0	—
4.				Column Totals:	75	· (A)	200	— (B)
5.					10	. (~) _	200	_ (5)
6.				Provalonco ir	dox = B/A =		2.67	
7.	_			Flevalence ii			2.01	
	25	= Total Cov	er	Hydrophytic Vege	tation Indic:	ators:		
Herb Stratum (Plot size: 5 Feet)		-		1 - Rapid Test	for Hydrophy	ytic Vege	tation	
1. Solidago rugosa / Wrinkle-leaf goldenrod	5	Yes	FAC	X 2 - Dominance) Test is >50°	%		
2. Rosa multiflora / Multiflora rose, Multiflora rosa	5	Yes	FACU	X 3 - Prevalence	Index ≤3.0¹			
3.				4 - Morphologi	cal Adaptatio	ons¹ (Pro	vide suppor	ting
4.				Problematic H	vdrophytic V	egetation	1 ¹ (Explain)	•
5.					,	-		
6.	_			¹ Indicators of hydrid	soil and we	tland hyd	drology mus	t
7.				be present, unless	disturbed or	problema	atic.	
8.	_	-				·		
9.				Definitions of Veg	etation Stra	ta		
10.		_						
11.				Tree - Woody plant	s 3 in. (7.6 c	m) or mo	re in diamet	er at
12				breast height (DBH), regardless	of heigh	lt.	
		= Total Cov	er	Sapling/shrub - W	oody plants	less than	3 in. DBH a	and
Woody Vine Stratum (Plot size: 30 Feet)		-		greater than or equ	al to 3.28 ft ((1 m) tall.		
1				Herb - All herbaced	ous (non-woo	ody) planí	ts, regardles	ss of
2				size, and woody pla	ants less that	n 3.28 ft f	tall.	
3				Woody vines - All	woody vines	greater t	than 3.28 ft i	in
3				height.				
т		= Total Cov						
		_ = 10(a) 000		Hydrophytic				
				Vegetation				
				Present?	Yes 📝	<u>K</u> No	о с	
Demonitor (Eveloin elferrettine succession - transmission	ha mana -4 \							
remains: (Explain alternative procedures here or in a separa	te report.)							

S	0	I	L
~	~		_

Depth	Matrix		Redox	Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-5	10YR 2/1	100					Sandy Clay			
5-18	10YR 4/2	70	10YR 4/1	25	D	M	Sandy Clay			
5-18			10YR 5/8		<u> </u>	PL				
	·			.						
	·									
	·									
	·									
	·									
	·									
Type: C=Cor	ncentration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ed Sand G	rains.		² Location	1: PL=Poi	re Lining, M=M	atrix.
ydric Soil I	ndicators:						Indicators fo	r Probler	matic Hydric S	ioils³:
Histosol	(A1)		Polyvalue Belov	/ Surface (S	68) (LRR R	MLRA 149	9B) 2 cm Mu	ck (A10)	(LRR K, L, ML	.RA 149B)
Histic Ep	bipedon (A2)		Thin Dark Surfa	ce (S9) (L F	RR R, MLRA	A 149B)	Coast Pr	airie Red	lox (A16) (LRF	R K, L, R)
Black Hi	istic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mu	cky Peat	or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Aatrix (F2)			Dark Su	face (S7)) (LRR K, L)	
_ Stratified	d Layers (A5) d Deleve Dede Overfrees (X Depleted Matrix	(F3) face (E0)			Polyvalu	e Below 3		
Depleted	a Below Dark Surface (/	411)	Redox Dark Sur	Tace (F6)			Inin Dar	K Surrace	e (59) (LKK K Maaaaa (512)	, L) (100 K 1 0)
- Fondy A	Ark Surface (ATZ)		Depleted Dark 3	ona (EP)			Iron-Iviar	iganese r t Eleodol	viasses (F 12)	(LKK N, L, K)
			- Redux Depressi				Fleamor	n Flooupi podie (TA)	ain 30iis (F19) 6) (MI PA 14	(MILKA 1490)
Sandy G	Neved Matrix (S4)									m, 143, 1430
Sandy G	Bleyed Matrix (S4)						Bed Par	, ant Mator	ial (F21)	
Sandy G Sandy R	Bleyed Matrix (S4) Redox (S5)						Red Pare	ent Mater	ial (F21) k Surface (TE1	2)
Sandy C Sandy R Stripped	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (I RR R MI	RA 149B)					Red Pare Very Sha	ent Mater allow Dark xolain in I	rial (F21) k Surface (TF1) Remarks)	2)
Sandy G Sandy R Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML	.RA 149B)					Red Pare Very Sha Other (E	ent Mater allow Darł xplain in I	ial (F21) k Surface (TF1 Remarks)	2)
Sandy G Sandy R Stripped Dark Sun	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML	.RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbed	l or probler	Red Par Very Sha Other (E natic.	ent Mater allow Dark xplain in l	ial (F21) k Surface (TF1 Remarks)	2)
Sandy G Sandy R Stripped Dark Su Indicators of testrictive L	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	.RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic.	ent Mater allow Dark xplain in I	ial (F21) k Surface (⊺F1 Remarks)	2)
Sandy G Sandy F Stripped Dark Su ndicators of cestrictive L Type: Depth (in	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Pare Very Sha Other (E natic.	ent Mater allow Dark xplain in I ent?	ial (F21) k Surface (TF1 Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Stripped Dark Su Indicators of Indicators of Indicators L Depth (in	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I ent?	ial (F21) k Surface (TF1 Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Stripped Dark Su ndicators of cestrictive L Type: Depth (in cemarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent?	ial (F21) k Surface (⊤F1 Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Stripped Dark Su ndicators of estrictive L Type: Depth (in :emarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation Layer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I	ial (F21) k Surface (⊤F1 Remarks) Yes <u>X</u>	2) No
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Sandy G Sandy F Stripped Dark Su ndicators of testrictive L Type: Depth (in :emarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I	ial (F21) k Surface (TF1 Remarks) Yes <u>X</u>	2) No
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Sandy G Sandy F Stripped Dark Su ndicators of estrictive L Type: Depth (in emarks:	Beyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I	ial (F21) k Surface (TF1 Remarks) Yes <u>X</u>	2) No
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Sandy G Sandy F Stripped Dark Su ndicators of restrictive L Type: Depth (in Remarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I	ial (F21) k Surface (⊤F1. Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Stripped Dark Su ndicators of cestrictive L Type: Depth (in Remarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): iches):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbed	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I	ial (F21) k Surface (⊤F1. Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Stripped Dark Su Indicators of Restrictive L Type: Depth (in Remarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): 	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbed	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater	ial (F21) k Surface (⊤F1. Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Survey Stripped Indicators of Restrictive L Type: Depth (in Remarks:	Beyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): inches):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbed	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater	ial (F21) k Surface (⊤F1 Remarks) Yes <u>X</u>	2) No
Sandy G Sandy F Stripped Dark Su Indicators of Cestrictive L Type: Depth (in Cemarks:	Beyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbed	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater	ial (F21) k Surface (TF1 Remarks) Yes <u>X</u>	2)
Sandy G Sandy F Stripped Dark Su Indicators of Cestrictive L Type: Depth (in Cemarks:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed):	RA 149B) and wetland	d hydrology must be p	resent, unle	ss disturbed	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater	ial (F21) k Surface (TF1 Remarks) Yes <u>X</u>	2)
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Sandy G Sandy F Stripped Dark Su ndicators of testrictive L Type: Depth (in temarks:	Beyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B)	d hydrology must be p	resent, unle	ss disturbec	l or probler	Red Par Very Sha Other (E natic. Hydric Soil Pres	ent Mater allow Dark xplain in I	ial (F21) k Surface (TF1. Remarks) Yes <u>X</u>	2) No
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Project/Site:	Champlain Hu	dson Power Express	Cit	v/County:	New Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt End	ineering Group	<u> </u>	St	ate: New York	Sampling Point:	WI-1U
Investigator(s):		MA, KC	Se ^r	ction, Township, F	Range:	Town o	f New Scotland	
Landform (hillslope, ter	rrace. etc):	Flat	Local relief	(concave, convey	(, none):	none	Slope	(%): 0-3
Subregion (LRR or ML	.RA):	LRR R	Lat:	42.60389296	Lona:	-73.8951152	27 Datum	n: WGS 1984
Soil Map Unit Name:			Scio silt loam			NWI classificatio	on:	
Are climatic / hvdrologi	c conditions on the	e site typical for this ti	me of vear? Yes	s X N	o (If no.	_ explain in Remark	s.)	
Are Vegetation	. Soil	, or Hydrology	significantly dis	sturbed?	Are "Normal Cir	cumstances" prese	nt? Yes X	(No
Are Vegetation	Soil	, or Hydrology	naturally proble	ematic?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ich site map sho	wing sampli	na point loca	tions. transed	ts. important	features, etc.	
	ion Present?	Vec	No X	le the Sa	mpled Area			
Hydric Soil Present?		Yes		within a l	Wetland?	Vos	No X	
Wetland Hydrology F	Present?	Ves		lf ves on	tional Wetland Site	a ID:		-
Weddid Hydrology I				1 Jes, op				
Remarks: (Explain a Upland	Iternative procedur point for PEM wet	es here or in a separ land I along railroad t	ate report.) racks.					
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (n	ninimum of one rea	quired: check all that	apply)			Secondary Indica	ators (minimum of t	vo required)
Surface Water ((A1)	<u>1</u> 1	Water-Stained Le	aves (B9)		Surface Soil	Cracks (B6)	
High Water Tab	le (A2)	—	Aquatic Fauna (B	13)		Drainage Pa	atterns (B10)	
Saturation (A3)		ı	Marl Deposits (B1	15)		Moss Trim L	ines (B16)	
Water Marks (B	51)	,	Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Depo	sits (B2)		Oxidized Rhizosp	heres on Living R	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (E	B3)		Presence of Redu	uced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Cru	ust (B4)	I	Recent Iron Redu	iction in Tilled Soi	ls (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (E	35)		Thin Muck Surfac	e (C7)		Geomorphic	Position (D2)	
Inundation Visit	ole on Aerial Image	əry (B7) (Other (Explain in I	Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Surf	ace (B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations								
Surface Water Prese	ent? Yes	No X	Depth (inches):					
Water Table Present	? Yes	No X	Depth (inches):					
Saturation Present?	Yes	No	Depth (inches):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fri	inge)							
Describe Recorded I	Data (stream gaug	e, monitoring well, ae	rial photos, previo	ous inspections),	if available:			
Remarks [.]								
i torrantor								

Absolute Irree Stratum (Plot size: 30 Feet) % Cover 1. Quercus rubra / Northern red oak 40 2. Pinus strobus / Eastern white pine 10 3. 10 4.	Dominant Species? Yes Yes = Total Cove Yes	Indicator Status FACU FACU FACU FACU FAC	Dominance Test Number of Domin That Are OBL, FA Total Number of D Species Across A Percent of Domina That Are OBL, FA Prevalence Index Total % Cov OBL species FACW species FACW species	worksheet: ant Species CW, or FAC: Dominant II Strata: ant Species CW, or FAC: cW, or FAC: k worksheet: er of: 0 15		2 6 33.3 Jtiply by: 0	_ (A) _ (B) _ (A/B
Absolute Free Stratum (Plot size: 30 Feet) % Cover Quercus rubra / Northern red oak 40 2. Pinus strobus / Eastern white pine 10 3. 10 4.	Dominant Species? Yes Yes = Total Cove	Indicator Status FACU FACU FACU FACU FAC	Number of Domin That Are OBL, FA Total Number of D Species Across A Percent of Domin That Are OBL, FA Prevalence Index <u>Total % Cove</u> OBL species FACW species	ant Species CW, or FAC: Dominant II Strata: ant Species CW, or FAC: k worksheet: er of: 0 15		2 6 33.3 ultiply by: 0	_ (A) _ (B) _ (A/B
Absolute Tree Stratum (Plot size: 30 Feet) % Cover 1. Quercus rubra / Northern red oak 40 2. Pinus strobus / Eastern white pine 10 3.	Dominant Species? Yes Yes = Total Cove Yes	Indicator Status FACU FACU FACU FACU FAC	That Are OBL, FA Total Number of D Species Across A Percent of Domina That Are OBL, FA Prevalence Index <u>Total % Cove</u> OBL species FACW species	CW, or FAC: Dominant II Strata: ant Species CW, or FAC: cW, or FAC: k worksheet : er of: 0 15		2 6 33.3 ultiply by: 0	_ (A) _ (B) _ (A/B
Absolute Tree Stratum (Plot size: 30 Feet) % Cover 1. Quercus rubra / Northern red oak 40 2. Pinus strobus / Eastern white pine 10 3. 10 4.	Dominant Species? Yes Yes = Total Cove Yes	Indicator Status FACU FACU FACU FACU FAC	Total Number of D Species Across A Percent of Domini That Are OBL, FA Prevalence Index <u>Total % Cove</u> OBL species FACW species	Dominant II Strata: ant Species CW, or FAC: x worksheet: <u>o</u> 15		6 33.3 ultiply by: 0	_ (B) _ (A/B
Tree Stratum (Plot size:	Species? Yes Yes = Total Cove Yes	Status FACU FACU FACU	Total Number of D Species Across A Percent of Domini That Are OBL, FA Prevalence Indep Total % Cove OBL species FACW species	Dominant II Strata: ant Species CW, or FAC: x worksheet: <u>o</u> 15	 x 1 = x 2 =	6 33.3 ultiply by: 0	_ (B) _ (A/B
Quercus rubra / Northern red oak 40 Pinus strobus / Eastern white pine 10 3.	Yes Yes = Total Cove Yes	FACU FACU FACU	Species Across A Percent of Domina That Are OBL, FA Prevalence Index Total % Cove OBL species FACW species	II Strata: ant Species CW, or FAC: x worksheet: <u>o</u> 15	 x 1 = x 2 =	6 33.3 ultiply by: 0	_ (B) _ (A/B
2. Pinus strobus / Eastern white pine 10 3.	Yes = Total Cove Yes		Percent of Domini That Are OBL, FA Prevalence Index Total % Cove OBL species FACW species	ant Species CW, or FAC: x worksheet : er of: 0 15	 x 1 = x 2 =	33.3 ultiply by: 0	_ (A/B
	= Total Cove Yes		Percent of Domina That Are OBL, FA Prevalence Index Total % Cove OBL species FACW species	ant Species CW, or FAC: x worksheet: er of: 0 15	$\frac{Mt}{x 1 = 1}$	33.3 ultiply by: 0	_ (A/E
	= Total Cove Yes		That Are OBL, FA Prevalence Index Total % Cove OBL species FACW species FAC species	CW, or FAC: k worksheet: er of: 0 15	$\frac{Mt}{x 1 = 1}$	33.3 Iltiply by: 0	(A/B
5	= Total Cove Yes	FAC	Prevalence Index Total % Cove OBL species FACW species	k worksheet: er of: 0 15	 x 1 = x 2 =	ultiply by:	
S.	= Total Cove Yes	FAC	Prevalence Index Total % Cove OBL species FACW species	k worksheet: er of: 0 15	$\frac{M}{x 1 = 1}$	ultiply by: 0	
.	= Total Cove Yes	FAC	Total % Cove OBL species FACW species	er of: 0 15	$\frac{M}{x 1 = }$	ultiply by: 0	
50 Sapling/Shrub Stratum (Plot size: 15 Feet) . Cornus racemosa / Gray dogwood	= Total Cove	FAC	OBL species FACW species	0 15	x 1 = _	0	
Sapling/Shrub Stratum (Plot size: 15 Feet) . Cornus racemosa / Gray dogwood 10 .	Yes	FAC	FACW species	15	x 2 =	-	
1. Cornus racemosa / Gray dogwood 10 2.	Yes	FAC	EAC species		~ ~ -	30	
2				10	×3=	30	
3			FACU species	80	x 4 =	320	
l			I IPL species	15	~~	75	
			Column Totolo:	120	$(A)^{-}$	455	(F
J.			Column Totals.	120	(~) _	400	(^B
			Bravalanaa	Index - R/A -		2 70	
7			Frevalence	muex – DIA –		3.79	
	= Total Cove		Hydrophytic Veg	etation Indica	tors:		
Herb Stratum (Plot size: 5 Feet)			1 - Rapid Tes	st for Hvdrophv	tic Veae	ation	
1. Rubus / Blackberry 20	Yes	FACU	2 - Dominand	e Test is >50%	6		
Eragaria vesca / Wild strawberry Wood strawberry 15	Yes		3 - Prevalence	e Index <3.01	•		
Solidago gigantea / Smooth goldenrod	Yes	FACW	4 - Morpholog	nical Adaptatio	ns ¹ (Pro	vide suppo	ortina
Rosa multiflora / Multiflora rose Multiflora rosa 10	No	FACU	Problematic I	Hvdrophytic Ve	netation	¹ (Explain)
				.,	.ge.ae	(,
······································			Indicators of hydr	ric soil and wet	land hvd	rology mu	st
7			he present unless	s disturbed or r	nrohlema	itic	
			be present, anes		51 OBIGINE		
······································			Definitions of Ve	getation Strat	a		
10			Tree - Woody plan	nts 3 in. (7.6 cr	n) or mo	re in diam	eter at
			breast height (DB	H), regardless	of heigh	t.	
م	- Total Cove		Sapling/shrub - \	Noody plants le	ess than	3 in. DBH	and
Moody Vine Stratum (Plot size: 20 East)	- 10(a) 0076	1	greater than or eq	ual to 3.28 ft (1 m) tall.		
(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Herb - All herbace	eous (non-woo	dy) plant	s, regardle	ess of
······································			size, and woody p	lants less thar	1 3.28 ft t	all.	
···			Woody vines - A	I woody vines	greater t	han 3.28 f	t in
,			height.	-	0		
···	- Total Cove						
		1	Hydrophytic				
			Vegetation				
			Present?	Yes	No)X	

S	0	I	L
-	-		

Profile Desc	ription: (Describe to t	he depth neede	ed to document th	e indicator	or confirm	the abser	ice of indicators.)		
Depth (inches)	Matrix		Redox	Features	Turnel		Tastura	Domorly	
(inches)		<u> </u>	Color (moist)	100	Туре	LOC	Iexture	Remark	3
	1011(2/2								
				·					
				·					
¹ Type: C=Cor	centration, D=Depletic	n, RM=Reduce	d Matrix, MS=Mask	ed Sand Gr	ains.		² Location: Pl	_=Pore Lining, M=	-Matrix.
Hydric Soil I	ndicators:						Indicators for Pr	oblematic Hydri	c Soils³:
Histosol	(A1)		Polyvalue Below	Surface (St	B) (LRR R,	MLRA 149	B) 2 cm Muck (A10) (LRR K, L,	MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfac	ce (S9) (LR	R R, MLRA	(149B)	Coast Prairie	Redox (A16) (L	.RR K, L, R)
Black Hi	stic (A3)		 Loamy Mucky M 	ineral (F1) ((LRR K, L)	,	5 cm Mucky	Peat or Peat (S3)	(LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	latrix (F2)			Dark Surface	e (S7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyvalue Be	low Surface (S8)	(LRR K, L)
Depleted	Below Dark Surface (A11) —	- Redox Dark Surl	face (F6)			Thin Dark Su	urface (S9) (LRR	K, L)
Thick Da	ark Surface (A12)		Depleted Dark S	urface (F7)			Iron-Mangar	ese Masses (F12	:) (LRR K, L, R)
Sandy M	lucky Mineral (S1)	_	Redox Depression	ons (F8)			Piedmont Fle	oodplain Soils (F1	9) (MLRA 149B)
Sandy G	ileyed Matrix (S4)						Mesic Spodi	c (TA6) (MLRA [·]	I44A, 145, 149B)
Sandy R	edox (S5)						Red Parent	Material (F21)	
Stripped	Matrix (S6)						Very Shallov	/ Dark Surface (⊤	F12)
Dark Su	face (S7) (LRR R, MI	_RA 149B)					Other (Expla	in in Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland hy	drology must be pr	esent, unles	s disturbed	or probler	natic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):		_				Hydric Soil Present	? Yes	No X
							-		
Remarks:									



AppleantOverse: Kenkt Engineering Group State: New York Samoling Point: WH11W Landterm (bildlops, terrates, tet): Lowand Lobal Intell (concave, correx, none): Town of Soctam State: New York Yes No	Project/Site:	Champlain Hu	dson Power Expres	s City/C	ounty: Ne	w Scotland, Alb	any County.	Sampling Date:	11/09/2021
Investigator(): MA_KC Sector, Towarbip, Range: Towarbip, Cange: Landform (fillione) terrate, etc): Lark method (conserv, convex, conse): Conserve Solver(%): Quarter, WidS31934 Subreyon (LRR or MLRA): LBR R Late if 42.60309433 Long: TX38492177 Datum: WidS31934 Ans dimatic in Marken: Sol attained in the site of year? Yes No (If no, explain in Remarke.) Datum: WidS31934 Are Vegetation Sol or Hydrology input sampling point locations, transacts prevent? Yes	Applicant/Owner:		Kiewitt Er	ngineering Group		Sta	ate: New York	Sampling Point:	WH-1W
Landform (hilstops, terrate, etc): Lord intell (concave, convex, none):	Investigator(s):		MA, KC	Sectio	n, Township, Ra	inge:	Tow	n of Scotland	
Storegion (LRR or MLRA): LBR R Lat: (42003043) Long: -7.3341217 Datum: WGS 1984 Store built on memory Store built loam NMI cleanshapion: Datum: WGS 1984 Are endmatch /hydrologi conditions on the list byfical for the time of year? Yea No (ff needed, explain any enversion in Remarks.) Are Vegetation Soil or Hydrology networking sampling point locations, transects, important features, etc. Hydrolydic Vegetation Present? Yes No within a Wetland? Yes No Wetland Hydrology Present? Yes No within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Indicators Pharmary indicators (minimum of one required; the kall that apply) Secondary indicators (minimum of two required) Secondary indicators (minimum of two required) Hydrology indicators (Metland EDR-H on wetland Lawes (B) Saturation (A) Saturation (A) Saturation (A) Saturation (A) Saturation A wetland C appect (A) Saturation (A) Saturation A wetland A saturation Present (B) Saturation (A	Landform (hillslope, ter	rrace, etc):	Lowland	Local relief (co	ncave, convex,	none):	concave	Slope	(%): 0-3
Sol Map Unit Name:	Subregion (LRR or ML	RA):	LRR R	Lat: 4	2.60309433	Long:	-73.894129	17 Datum	1: WGS 1984
Are directly hydrologic conditions on the site bypical for the time of year? Yea No (if no, explain namata), Are Yogetation Soll or Hydrologyneturally problemate? (if needed, explain any answers in Remarks),	Soil Map Unit Name:			Scio silt loam			NWI classification	on:	
Are Vagetation	Are climatic / hydrologi	ic conditions on the	e site typical for this	time of year? Yes	X No	(If no,	- explain in Remark	s.)	
Are Vegetation	Are Vegetation	, Soil ,	, or Hydrology	significantly distur	bed?	Are "Normal Cire	cumstances" prese	ent? Yes X	(No
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Veglation Present? Yes X No	Are Vegetation	, Soil,	, or Hydrology	naturally problema	atic?	(If needed, expla	ain any answers in	Remarks.)	
Hydrophytic Vegetatilion Present? Yes X No	SUMMARY OF FI	NDINGS - Atta	ich site map sh	owing sampling	point locati	ons, transec	ts, important	features, etc.	
hydric Soil Present? Yes X No Yes X No Wetland Hydrology Present? Yes X No Yes Yes No Remetrs: (Explain altenative procedures here or in a separate report.) FO point for wetland H. WH-1W PFO Identified as Wetland EDR-H on wetland mapping and in report text. Ho Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) X Water Stained Leaves (59) Surface Soil Cracks (36) Surface Water (A1) X Water Stained Leaves (59) Darbage Patterns (610) Darbage Patterns (610) Surface Water (A3) Man Deposits (815) Mores Timi Lines (616) Drosson Water Table (C2) Sufface Water (A3) Presence of Reduced for (C1) Saturation (C3) Saturation Viable on Aerial Imagery (C9) In the Deposits (82) X Ouddred Rhizosphares on Living Roots (C3) Saturation Viable on Aerial Imagery (C9) In no Deposits (B3) Presence of Reduced for (C1) Saturation Viable on Aerial Imagery (C9) Saturation Viable on Aerial Imagery (C9) In undenor Viable on Aerial Imagery (B7) Other (Explain in Remarks) Shatlow Acutard (C3) Shatlow Acutard (C4)	Hydrophytic Vegetat	tion Present?	Yes X	No	Is the Sam	pled Area			
Wettand Hydrology Present? Yes X No If yes, optional Wettand Site ID: WH-1W PFO Remarks: (Explain alternative procedures here or in a separate report.) PFO point for wettand H. If yes, optional Wettand Site ID: WH-1W PFO Identified as Wettand EDR-H on wettland mapping and in report text. If yes, optional Wettand Site ID: WH-1W PFO HVDROLOGY Wettand Hydrology Indicators: Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Darinage Patterns (B10) Most Patterns (B10) Most Patterns (B10) Saturation (A3) Mart Deposits (B15) Most Pattern Lines (B16) Darinage Patterns (B10) Darinage Patterns (B10) Darinage Patterns (B10) Darinage Patterns (B10) CaryRis Burrows (C8) CaryRis Burrows (C9) CaryRis Burrows (C9) Saturation Vaible on Aerial Imagery (C9) Saturatin Vaible on Aerial Imagery (C1	Hydric Soil Present?	>	Yes X	No	within a W	etland?	Yes X	No	
Internation years of the second set	Wetland Hydrology F	Present?	Yes X	_ No	If ves optic	onal Wetland Site	+ ID:		-
Remarks: (Explain alternative procedures here or in a separate report.) Proportion weakend H. Identified as Wetland EDR-H on wetland mapping and in report text. Hyperbalance in the properties of the properis of the properties of the properties of the	Wettand Hydrology I			_ 110	i yee, opae				
Identified as Wetland EDR-H on wetland mapping and in report text. HYDRUGGY Watland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) X Hydrology Indicators: Surface Water (A1) Hydrology Indicators (B1) Aquatic Faune (B13) Hydrogen Sulface Odor (C1) Dorainage Patterns (B10) Saturation (A3) Mari Deposits (B15) Water Marks (B1) Hydrogen Sulface Odor (C1) Sediment Deposits (B2) Yongen Sulface Odor (C3) Genomptic Deposits (B3) Presence of Reduced iron (C4) Iron Deposits (B3) Thin Muck Surface (C7) Iron Deposits (B3) Saturation Nisible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) X Water Table (Present? Yes Surface Water Present? Yes Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	Remarks: (Explain a PFO po	Iternative procedur oint for wetland H.	res here or in a sepa	arate report.)					
WTDROLOGY Wettand Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) X Startace Water (A1) Aquatic Fauna (B13) Saturation (A2) Aquatic Fauna (B13) Saturation (A3) Mert Deposits (B15) Saturation (A3) Hydrogen Sulfide Odor (C1) Saturation (A3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Iron Deposits (B3) Thin Muck Surface (C1) Iron Deposits (B3) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) X Water Table Present? Yes No Sufface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Remarks: Wetnand Hydrology Present? Yes No	Identified as	s Wetland E	DR-H on we	tland mapping	y and in re	port text.			
Watand Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required). Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) More Stainage Patterns (B10) Saturation (A3) Mart Deposits (B1) Dydrogen Sulfdee Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced iron (C4) Saturation Visible on Aerial Imagery (C9) Adjal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Innodation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) X Depth (inches): Metrotopographic Relief (D4) X FAC-Neutral Test (D5) FAC-Neutral Test (D5) Metrotopographic Relief (D4) Sturation Present? Yes No Depth (inches): Metrotopographic Relief (D4) X Ref Table Present? Yes No Depth (inches): Metrotopographic Relief (D4) X </td <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td>·</td> <td></td> <td></td> <td></td>					<u> </u>	·			
Wetand Hydrology Indicators: Secondary Indicators: (ininium of one required; check all that apply) Secondary Indicators: (ininium of two required) Primary Indicators: Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Moss Tim Lines (B16) Saturation (A3) Mart Deposits (B15) Moss Tim Lines (B16) Dry-Season Water Table (C2) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drit Deposits (B3) Presence of Reduced from (C4) Saturation Visible on Aerial Imagery (C9) Adgal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sturted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Irondation Visible on Aerial Imagery (B7) Ofther (Explain in Remarks) Shallow Aquitard (D3) Synface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Water Table Present? Yes No X Dep									
Princip indicators (minimum or one required; check all that appri) Surface Water (A1) X Surface Water (A1) Surface Soil Cracks (B)	wetland Hydrology	/ Indicators:		4			0		
	Primary Indicators (r	minimum of one rec	quireo; check all tha	t apply)	- (DO)		Secondary Indica	ators (minimum of th	vo requirea)
Addud Padria (51) Saturation (A3) Addud Padria (513) Saturation (A3) Mart Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Crafyfish Burrows (C4) Drift Deposits (B3) Presence of Reduced Iron (C4) Adjal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Iron Deposits (B5) Other (Explain in Remarks) Iron Deposits (B5) Other (Explain in Remarks) Statration Visible on Aerial Imagery (B7) Other (Explain in Remarks) Statration Visible Present? Yes Yes No X Depth (inches): Saturation Present? Yes Yes No X Depth (inches): Wetland Hydrology Present? Yes X No X Depth (inches): Saturation Free and gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface water	(A1)	<u>×</u>	Aquetia Found (B12)	is (B9)		Surface Sol		
	High Water Tab	ne (AZ)		Aquatic Fauna (B13)			Drainage Pa	ines (B10)	
Water hanks (p1)	Saturation (AS)	54)		Man Deposits (B15)	lor(C1)			Motor Toble (C2)	
Geduniterin Deposits (B2) Constrained on the second of Reduced for (C4) Constrained	Water Marks (D)) poite (P2)	<u>_</u>	Ovidized Phizeenber	or (CT)	ata (C2)	Dry-Season		
Algal Mat or Crust (B4) Recent to Reduce in (In(L4)) Stantador Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Shallow Aquitard (D3) Sharlow Aquitard (D4) Sharlow Aq	Sediment Depo		<u>^</u>	Oxidized Rhizospher	es on Living Ro	018 (03)		liows (Co) /isible on Asriel Ima	
Againator Cotst (64)		D3) wat (D4)	—	Presence of Reduced	J IIOII (C4)	(08)	Saturation V	Asible of Aerial Ina	igery (C9)
Information Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) X Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Algai Mat Or Cri	usi (D4) B5)		Thin Muck Surface ((00)	Stunted of a	Position (D2))
		55) blo on Aorial Imaga		Other (Eveloin in Per	unarke)		Geomorphic	itard (D3)	
Field Observations: Surface Water Present? Yes No X Depth (inches):	Sparsoly Vogot	ote on Aenai image	face (B8)		nansj		Shallow Aqu	analo (D3)	
Field Observations: Surface Water Present? Yes No X Depth (inches):		aled Concave Sun					X FAC-Neutra	I Test (D5)	
Field Observations: Surface Water Present? Yes No X Depth (inches):								1100((20)	
Surface Water Present? Yes No X Depth (inches):	Field Observations								
Water Table Present? Yes No X Depth (inches):	Surface Water Prese	ent? Yes	NoX	Depth (inches):					
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No	Water Table Present	t? Yes	NoX	_ Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Saturation Present?	Yes	NoX	Depth (inches):		Wetland Hyd	rology Present?	Yes X	No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes capillary fri	inge)							
Remarks:	Describe Descrided I	Dete (etreem cours		adal photos, provinue	inenections) if	evelleble			
Remarks:	Describe Recorded	Data (stream gauge	e, monitoring well, a	ienal photos, previous	inspections), it	avaliable:			
Remarks:									
	Remarks:								

Tree Stratum (Plot size:30 Feet) 1. Quercus bicolor / Swamp white oak 2. Quercus rubra / Northern red oak 3. 2. Quercus rubra / Northern red oak 3.	Absolute % Cover 20	Dominant	Indicator	Dominance Test Number of Domina That Are OBL, FA	worksheet: ant Species			
Tree Stratum (Plot size:30 Feet) 1. Quercus bicolor / Swamp white oak 2. Quercus rubra / Northern red oak 3. 3.	Absolute <u>% Cover</u> 20	Dominant Species?	Indicator	Number of Domina That Are OBL, FA	ant Species			
Tree Stratum (Plot size:30 Feet) 1. Quercus bicolor / Swamp white oak 2. Quercus rubra / Northern red oak 3. 3.	Absolute <u>% Cover</u> 20	Dominant Species?	Indicator	That Are OBL, FA				
Tree Stratum (Plot size:	<u>% Cover</u> 20	Species?	Indicator		<i>SW</i> , 011 AO.		4	(A)
Inee Stratum (Plot size	20	SUBCIES	Status					-
Quercus bicolor / Swamp white bak Quercus rubra / Northern red oak	20	_ <u></u>		Total Number of D	ominant			
Quercus rubra / Northern red oak	40			Species Across Al	Strata:		5	(B)
3	10	_ res	FACU					_
				Percent of Domina	int Species			
4				That Are OBL, FA	CW, or FAC:		80.0	(A/B)
5								
6				Prevalence Index	worksheet:			
7				Total % Cove	r of:	Μι	iltiply by:	
	30	_ = lotal Cove	r	OBL species	0	x 1 = _	0	
Sapling/Shrub Stratum (Plot size: 15 Feet)	_			FACW species	110	x 2 = _	220	
1. Cornus alba / Red osier	25	_ Yes	FACW	FAC species	0	x 3 =	0	
2				FACU species	15	x 4 =	60	
3				UPL species	0	x 5 =	0	
4				Column Totals:	125	(A) _	280	(B)
5				-		_		
6				Prevalence	ndex = B/A =		2.24	
7					totion Indian	10101		
Llark Strature (Distaire) 5 Fact	20					tors: tie Veret		
<u>Herb Stratum</u> (Plot size. <u>5 Feet</u>)	50	Vaa			. Tor Hydrophy	, ,	ation	
Onociea sensibilis / Sensitive term				X 2 - Dominanc		0		
2. Solidago giganiea / Smooth goldenrod				A 3 - Prevalenc	e index ≤3.0"		de europe	
			FACU	4 - Morpholog	lical Adaptatio	ns (Prov	/ide suppo	rung
4					iyaropnytic ve	getation	· (Explain)	1
o				1 undicators of budy		امريط امريط		
7				ha present unless	c soil and wet	iand nyd	rology mus	3L
7				be present, unless	aisturbea or p	propiema	tic.	
0				Definitions of Ve	etation Strat	a		
10					•			
11				Tree - Woody plan	ts 3 in. (7.6 cr	n) or mo	re in diame	eter at
12				breast height (DBI	l), regardless	of height		
12				Sapling/shrub - V	loody plants le	ess than	3 in. DBH	and
Woody Vine Stratum (Plot size: 20 East)	10		I	greater than or eq	ual to 3.28 ft (1 m) tall.		
1				Herb - All herbace	ous (non-woo	dy) plant	s, regardle	ess of
יה ס				size, and woody p	ants less than	3.28 ft t	all.	
2				Woody vines - All	woody vines	greater t	nan 3.28 ft	in
٨				height.				
4	- <u> </u>	= Total Cove						
		- 10(a) 00/8	•	Hydrophytic				
				Vegetation				
				Present?	Yes X	No		

S	0	I	L
-	-		

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 4/1	98	10YR 4/6	2	<u> </u>	PL _	Clay			
			·							
				. <u> </u>						
			·							
			·							
			·	·						
			·							
Type: C=Cor	centration, D=Depletio	n, RM=Red	luced Matrix, MS=Mask	ed Sand Gr	ains.		²Locat	tion: PL=Po	re Lining, M=Ma	trix.
lydric Soil Ir	ndicators:						Indicators	for Proble	matic Hydric So	oils³:
Histosol	(A1)		Polyvalue Below	Surface (S	B) (LRR R,M	/LRA 149B) 2 cm I	Muck (A10)	(LRR K, L, MLF	RA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coast	Prairie Red	dox (A16) (LRR	K, L, R)
Black His	stic (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		5 cm l	Mucky Peat	or Peat (S3)(L	RR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	1atrix (F2)			Dark \$	Surface (S7)) (LRR K, L)	
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyva	alue Below 3	Surface (S8) (L	RR K, L)
				face (E6)			Thin D	Dark Surface	e (S9) (LRR K,	1)
Depleted	Below Dark Surface (A	411)	Redox Dark Sur						. , . ,	-,
Depleted Thick Da	Below Dark Surface (A Irk Surface (A12)	A11)	Redox Dark Sur Depleted Dark S	urface (F7)			Iron-N	langanese l	Masses (F12) (LRR K, L, R)
Depleted Thick Da Sandy M	l Below Dark Surface (A Irk Surface (A12) lucky Mineral (S1)	A11)	Redox Dark Sur Depleted Dark S Redox Depressi	ourface (F7) ons (F8)			Iron-M Piedm	langanese l nont Floodpl	Masses (F12) (lain Soils (F19)(LRR K, L, R) MLRA 149B)
Depleted Thick Da Sandy M Sandy G	l Below Dark Surface (A Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4)	A11)	Redox Dark Sur Depleted Dark S Redox Depressi	ons (F8)			Iron-M Piedm Mesic	Anganese I nont Floodpl Spodic (TA	Masses (F12) (lain Soils (F19) (6) (MLRA 144)	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R	l Below Dark Surface (A Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5)	A11)	Redox Dark Sur Depleted Dark S Redox Depressi	ons (F8)			Iron-M Piedm Mesic Red F	Manganese I nont Floodpl Spodic (TA Parent Mater	Masses (F12) (lain Soils (F19) (6) (MLRA 144 / rial (F21)	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Stripped	l Below Dark Surface (A Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LBB B. MI	A11)	Redox Dark Sur Depleted Dark S Redox Depressi	urface (F7) ons (F8)			Iron-M Piedm Mesic Red F Very S	Aanganese I nont Floodpl Spodic (TA Parent Mater Shallow Dar	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	l Below Dark Surface (A nrk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML	A11) . RA 149B)	Redox Dark Sur Depleted Dark S Redox Depressi	ourface (F7) ons (F8)			Iron-M Piedm Mesic Red F Very S Other	Aanganese I nont Floodpl Spodic (TA Parent Mater Shallow Dar (Explain in	Masses (F12) (lain Soils (F19) (6) (MLRA 144 / rial (F21) k Surface (TF12 Remarks)	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	l Below Dark Surface (A Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation	A11) . RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi	resent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Very S Other	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144 , rial (F21) k Surface (TF12 Remarks)	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L	I Below Dark Surface (A Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi	iurface (F7) ons (F8) resent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red P Very S Other	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks)	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L 	l Below Dark Surface (<i>A</i> Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) . RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed	or problema	Iron-M Piedm Mesic Red F Very S Other	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar : (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144) rial (F21) k Surface (TF12 Remarks)	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Very S Other ttic.	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144 , rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Cestrictive L Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Hydric Soil Pr	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F12) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes X	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Very S Other ttic.	Manganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar : (Explain in : (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed	or problema	Iron-M Piedm Mesic Red F Very S Other ttic.	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar (Explain in (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be p	esent, unles	s disturbed	or problema	Iron-M Piedrr Mesic Red F Other ttic.	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Hydric Soil Pr	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F12) (6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed	or problema	Hydric Soil Pr	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F12) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Hydric Soil Pr	Manganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F12) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes X	No
Depleted Thick Da Sandy M Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Hydric Soil Pr	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Darl : (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy R Stripped Dark Sur Indicators of Restrictive L Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Very S Other	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Darl : (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy R Sandy R Dark Sur Indicators of Restrictive L Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	resent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Very S Other	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar : (Explain in resent?	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy R Stripped Dark Sur Indicators of Restrictive L Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be p	esent, unles	s disturbed (or problema	Iron-M Piedr Mesic Red F Very S Other ttic.	Aanganese I Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar : (Explain in resent?	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	 LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be p	esent, unles	is disturbed (or problema	Iron-M Piedr Mesic Red F Very S Other ttic.	Aanganese I Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar : (Explain in resent?	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	_, LRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy R Stripped Dark Sur Indicators of Restrictive L Type: Depth (ind	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be p	esent, unles	s disturbed	or problema	Iron-M Piedm Mesic Red F Very S Other ttic.	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Dar (Explain in resent?	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	_, IRR K, L, R) MLRA 149B) A, 145, 149B)
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur Indicators of Restrictive L Type: Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Other ttic.	Aanganese I nont Floodpl Spodic (TA Parent Mater Shallow Dari (Explain in	Masses (F12) (lain Soils (F19) (.6) (MLRA 144 , rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	No
Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur ndicators of testrictive L Depth (ind Remarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Hydric Soil Pr	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Darl : (Explain in resent?	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	
Depleted Thick Da Sandy M Sandy R Sandy R Dark Sur ndicators of estrictive L Depth (ind emarks:	I Below Dark Surface (<i>A</i> Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	A11) .RA 149B) and wetlan	Redox Dark Sur Depleted Dark S Redox Depressi d hydrology must be pr	esent, unles	s disturbed (or problema	Iron-M Piedm Mesic Red F Very S Other ttic.	Aanganese I nont Floodpl : Spodic (TA Parent Mater Shallow Darl : (Explain in resent?	Masses (F12) (lain Soils (F19) (.6) (MLRA 144, rial (F21) k Surface (TF12 Remarks) Yes <u>X</u>	_, LRR K, L, R) MLRA 149B) A, 145, 149B)

Project/Site:	Champlain Hu	dson Power Expres	s City	v/County:	New Scotland, Alk	bany County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt Er	igineering Group	,	Si	tate: New York	Sampling Point:	WH-2W
Investigator(s):		MA, KC	<u>s ser</u> Ser	ction, Township,	Range:	Town c	of New Scotland	
Landform (hillslope, te	errace, etc):	Lowland	Local relief	(concave, conve	ex, none):	concave	Slope	• (%): 0-3
Subregion (LRR or ML	_RA):	LRR R	Lat:	42.60292283	Long:	-73.89383	7 Datur	n: WGS 1984
Soil Map Unit Name:	·		Scio silt loam			NWI classificatio	on:	
Are climatic / hydrolog	ic conditions on the	e site typical for this	time of year? Yes	3 X N	No (If no	, explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed?	Are "Normal Cir	rcumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic?	(If needed, expl	lain any answers in	Remarks.)	
SUMMARY OF F	INDINGS - Atta	ach site map sh	owing samplin	ng point loca	ations, transe	cts, important [,]	features, etc.	
Hydronhytic Vegeta	tion Present?	Yes X	 No	Is the S	ampled Area	` .		
Hydric Soil Present	?	Yes X	- No	within a	Wetland?	Yes X	No	
Wetland Hydrology	Present?	Yes X	- 100	If ves. or	otional Wetland Sit	te ID:		-
Remarks: (Explain a PSS p	alternative procedur oint for wetland H a	res here or in a sepa adjacent to railroad a	arate report.) and industrial area.					
Identified as	Wetland E	DR-H on wet	land mappir	ng and in r	eport			
HYDROLOGY								
Wetland Hydrology	v Indicators:							
Primany Indicators (y mulcators.	guirad: abaak all tha	t apply)			Secondary India	atoro (minimum of i	two required)
Surface Water		quireu, crieck all tria	Water-Stained Le			Surface Soi	Cracke (B6)	iwo required)
X High Water Tat	(~) hle (42)	<u></u>	Aquatic Fauna (B)	13)		Drainage P	attems (B10)	
X Saturation (A3)		_	Marl Denosits (B1	5)		Moss Trim L	ines (B16)	
Water Marks (E	, R1)		Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Depo	osits (B2)	—	Oxidized Rhizosp	heres on Living I	Roots (C3)	Cravfish Bu	rrows (C8)	
Drift Deposits ((R3)		Presence of Redu	red Iron (C4)		Saturation \	/isible on Aerial Im	adery (C9)
Algal Mat or Cr	,00) ruet (R4)		Pecent Iron Redu	iction in Tilled Sc	nile (C6)	Stunted or \$	Stressed Plants (D)	1)
Iron Deposits ((USL (D+)		Thin Muck Surface	o (C7)		Geomorphic	Position (D2)	1)
Inundation Visi	ible on Aerial Imag	en/ (R7)	Other (Explain in I	e (Cr) Remarke)		Shallow Aqu	uitard (D3)	
Sparsely Veget	tated Concave Sur	face (B8)		(cinance)		X Microtopogr	anhic Relief (D4)	
		(20)				X FAC-Neutra	I Test (D5)	
							()	
Field Observations	3:							
Surface Water Pres	ent? Yes	No <u></u>	Depth (inches):		-			
Water Table Presen	it? Yes	No	Depth (inches):	9	-			
Saturation Present?	' Yes	No	_ Depth (inches):	0	- Wetland Hyd	drology Present?	Yes X	No
(includes capillary fr	ringe)							
Describe Recorded	Data (stream gaug	e monitoring well a	erial photos, previo	us inspections)	if available:			
Describe recorded	Data (Stream youg	je, monitornig wen, a	ienai priotos, previo	Jus inspections,	, Il avaliable.			
Remarks:								

ntifi . . _ _

EGETATION - Use scientific names of plants.					Sam	oling Poi	nt: <u>W</u>	'H-2W
	Absolute	Dominant	Indicator	Dominance Test Number of Domina That Are OBL, FA	worksheet: ant Species CW, or FAC:		3	_ (A)
Tree Stratum (Plot size: <u>30 Feet</u>)	% Cover	Species?	Status	Total Number of D	ominant			
1				Species Across Al	I Strata		3	(B)
2					l ollulu.		0	_ (5)
3				Percent of Doming	ant Species			
4							100.0	(A/D)
5					GW, OFFAC.		100.0	_ (~)
6 7.				Prevalence Index	worksheet:		ultimber here	
· · ·	0	= Total Cov				IVI		
Saoling/Shrub Stratum (Plot size: 15 Feet)				UBL species	0	x1=	0	
1 Cornus recemose / Grav dogwood	40	Voe	FAC	FACW species	80	× 2 = _	160	
2. Corrue alba / Bad opier				FAC species	40	x 3 = _	120	
		No		FACU species	15	×4=_	60	
	10		FACU	UPL species	10	x 5 = _	50	
4				Column Totals:	145	(A) _	390	(B)
5 6				Prevalence	Index = B/A =		2.69	
7						-		
	65	= Total Cov	/er	Hydrophytic Veg	etation Indica	ators:		
Herb Stratum (Plot size: <u>5 Feet</u>)				1 - Rapid Tes	t for Hydrophy	tic Vege	tation	
1. Onoclea sensibilis / Sensitive fern	50	Yes	FACW	X 2 - Dominanc	e Test is >50	6		
2. Solidago gigantea / Smooth goldenrod	15	No	FACW	X 3 - Prevalenc	e Index ≤3.0¹			
3. Epilobium / Willowherb	10	No	NI	4 - Morpholog	gical Adaptatio	ons ¹ (Pro	vide suppo	orting
4. Lonicera morrowii / Morrow's honeysuckle	5	No	FACU	Problematic I	- - - - - - - - - - - - - - - - - - -	egetatior	1 (Explain)
5.								
6.				¹ Indicators of hydr	ic soil and we	tland hyd	drology mu	st
7.		_		be present, unless	disturbed or	problem	atic.	
8.				· · ·				
9.				Definitions of Ve	getation Stra	ta		
10.								
11.				Tree - Woody plar	nts 3 in. (7.6 c	m) or mo	ore in diam	eter at
12				breast height (DBI	H), regardless	of heigh	it.	
	80	= Total Cov	er	Sapling/shrub - V	Voody plants	ess thar	3 in. DBH	and
Woody Vine Stratum (Plot size: 30 Feet)				greater than or eq	ual to 3.28 ft (1 m) tall		
1.				Herb - All herbace	eous (non-woo	dy) plan	ts, regardle	ess of
2.		_		size, and woody p	lants less tha	n 3.28 ft	tall.	
3.		_		Woody vines - A	l woody vines	greater	than 3.28 f	t in
4.				height.				
	0	= Total Cov						
		_		Hydrophytic Vegetation Present?	Yes)	(N	D	

S	0	I	L
-	-		

Profile Desc	ription: (Describe to t	he depth ne	eded to document t	he indicator	or confirm	the abser	ice of indicators.)		
Depth		0/	Redo.	x reatures	T 1	1 2	-	D	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	lype'	Loc	lexture	Remarks	
0-9	10YR 4/1	100					Clay		
9-18	10YR 4/1	95	10YR 5/4	5	<u> </u>	M	Clay		
		·			·				
		·							
				_					
¹ Type: C=Co	ncentration, D=Depletion	on, RM=Red	uced Matrix, MS=Mas	ked Sand G	rains.		² Location: F	L=Pore Lining, M=Matrix.	
Livelain Cail	la dia séa sa :						Indiantara far D	rahlamatia Undria Caila3.	
riyaric Soll	indicators:			o ()-	· · · ·		indicators for P		
Histoso	l (A1)		Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm Muck	(A10) (LRR K, L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LF	RR R, MLRA	A 149B)	Coast Prairi	e Redox (A16) (LRR K, L, R)	
Black H	istic (A3)		Loamy Mucky M	/lineral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) (LRR K, L, F	R)
Hydrog	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark Surfac	e (S7) (LRR K, L)	
Stratifie	d Lavers (A5)		X Depleted Matrix	(F3)			Polvvalue B	elow Surface (S8) (LRR K. L)	
 Deplete	d Below Dark Surface (A11)	Redox Dark Su	face (F6)			Thin Dark S	urface (S9) (IRR K. I.)	
Thick D	ark Surface (A12)	,,,,,	Doploted Dark	Surface (EZ)			Iron Manga		D)
Candul	dueles Minerel (C1)		Depieted Dark				lion-ivialiga	and the set of the set	, IX) (0 D)
Sandy I			Redox Depress	ions (F6)				oodplain Solis (F19) (WILRA 14	9 D)
Sandy C	Sleyed Matrix (S4)						Mesic Spod	IC (1A6) (MLRA 144A, 145, 14	9B)
Sandy F	Redox (S5)						Red Parent	Material (F21)	
Stripped	d Matrix (S6)						Very Shallo	w Dark Surface (⊤F12)	
Dark Su	ırface (S7) (LRR R, M	LRA 149B)					Other (Expl	ain in Remarks)	
³ Indicators o	f hydrophytic vegetatior	and wetlan	d hydrology must be p	resent, unle	ss disturbed	l or problen	natic.		
Restrictive	_ayer (if observed):								
Type:	,								
Depth /ir	ahaa).						Hudrie Seil Dresser		
Depth (Ir	icnes):						Hydric Soll Present	.r res <u>X</u> NO	
Remarks:									



Project/Site:	Champlain Hu	dson Power Express		City/Cour	nt v: Ne	w Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt En	gineering Grou	an	·	Sta	ate: New York	Sampling Point:	WH-1U
Investigator(s):		MA. KC	<u></u>	Section.	Township. Rai	nge:	Town	New Scotland	
Landform (hillslope, ter	rrace, etc);	Flat	Local re	elief (conca	ave. convex. r	ione):	none	Slope	(%): 0-3
Subregion (LRR or MLI	RA):	LRR R	Lat:	42.	6031254	Lona:	-73.8943913	35 Datur	n: WGS 1984
Soil Map Unit Name:	,.		Scio silt loam				NWI classificatio	on:	
Are climatic / hvdrologi	c conditions on the	e site typical for this t	ime of vear?	Yes >	K No	(If no.	_ explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantly	disturbed		re "Normal Ciro	cumstances" prese	nt? Yes	K No
Are Vegetation	 . Soil	, or Hydrology	naturally pr	oblematic	? (If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map sh	 owing sam	plina p	oint locatio	ons. transec	ts. important	features, etc.	
	ion Present?	Vec	No X	<u> </u>	le the Same	led Area			
Hydric Soil Present?		Ves		-	within a We	atland?	Vos	No X	
Wetland Hydrology F	Present?	Yes		-	If yes option	nal Wetland Site	a ID:		-
Wedding Hydrology I				-	ii yes, opaol				
Remarks: (Explain al Foreste	Iternative proceduated and point the	res here or in a separe PSS and PFO wetla	rate report.) Inds within We	etland H.					
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (n	ninimum of one re	quired: check all that	apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water ((A1)	4	Water-Stained	d Leaves (B9)		Surface Soi	Cracks (B6)	
High Water Tab	le (A2)		Aquatic Fauna	a (B13)	,		Drainage Pa	atterns (B10)	
Saturation (A3)	. ,		Marl Deposits	(B15)			Moss Trim L	.ines (B16)	
Water Marks (B	51)		Hydrogen Sulfide Odor (C1) Dry-Season Water Tabl						
Sediment Depo	sits (B2)		Oxidized Rhiz	ospheres	on Living Roc	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (E	B3)		Presence of R	Reduced Ir	on (C4)		Saturation V	isible on Aerial Im	agery (C9)
Algal Mat or Cru	ust (B4)		Recent Iron R	eduction i	n Tilled Soils	(C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (E	35)	_	Thin Muck Sur	rface (C7)	1		Geomorphic	Position (D2)	
Inundation Visib	ole on Aerial Image	ery (B7)	Other (Explain	n in Rema	rks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Sur	face (B8)					Microtopogr	aphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations									
Surface Water Prese	• ent? Yes	No X	Depth (inche	es):					
Water Table Present	? Yes		Depth (inche	es):					
Saturation Present?	Yes		Depth (inche	es):		Wetland Hvd	roloav Present?	Yes	No X
(includes capillary fri	inge)		p (····· , ·			<u> </u>
Describe Recorded I	Data (stream gaug	je, monitoring well, a	erial photos, pr	revious ins	spections), if a	vailable:			
Remarks [.]									

EGETATION - Use scientific names of plants.					Samp	oling Poi	nt: <u> </u>	VH-1U
				Dominance Test Number of Domina That Are OBL, FA	worksheet: ant Species CW, or FAC:		2	(A)
Tree Streture (Plateizer 20 Feet)	Absolute	Dominant Species2	Indicator	,				_ ` ´
<u>Iree Stratum</u> (Plot size: <u>30 Feet</u>)	% Cover			Total Number of D	ominant			
2. <i>Binus strobus / Eastern white pine</i>	<u>40</u>	 		Species Across Al	Strata:		6	_ (B)
	10							
٥				Percent of Domina	int Species			
5				That Are OBL, FA	CW, or FAC:		33.3	(A/E
6				Prevalence Index	worksheet:			
1				Total % Cove	r of:	M	ultiply by:	
	50	$_{-}$ = lotal Cove	r	OBL species	0	x 1 = _	0	
Sapling/Shrub Stratum (Plot size: 15 Feet)	10	N	540	FACW species	15	x 2 = _	30	
1. Comus racemosa / Gray dogwood	10	Yes		FAC species	10	x 3 = _	30	
2				FACU species	80	×4=-	320	
۵				UPL species	15	x 5 = _	75	
+ 5				Column Totals: -	120	(A) -	455	(E
6							0.70	
7.				Prevalence	ndex = B/A =		3.79	
		= Total Cove	r	Hydrophytic Vegetation Indicators:				
Herb Stratum (Plot size: 5 Feet)		-		1 - Rapid Test	for Hydrophy	ytic Vege	etation	
1. Rubus / Blackberry	20	Yes	FACU	2 - Dominanc	e Test is >50%	%		
2. Solidago gigantea / Smooth goldenrod	15	Yes	FACW	3 - Prevalence	e Index ≤3.0¹			
3. Fragaria vesca / Wild strawberry, Wood strawberry	15	Yes	UPL	4 - Morpholog	ical Adaptatio	ons ¹ (Pro	vide supp	orting
4. Rosa multiflora / Multiflora rose, Multiflora rosa	10	No	FACU	Problematic H	lydrophytic Ve	egetatior	n¹ (Explain)
5								
6				¹ Indicators of hydri	c soil and we	tland hy	drology mu	ıst
7				be present, unless	disturbed or	problem	atic.	
8								
9				Definitions of Veg	jetation Stra	ta		
10					ta 0 in (7 6 a		un in diama	aton at
11				breast height (DBI	ls 3 m. (7.6 C 1). regardless	of heigh	ле in uiam nt.	eterat
12				Sanling/shrub		loce ther	 ∖3 in ⊡⊵∟	and
	60	_ = Total Cove	r	greater than or equ	ual to 3.28 ft ((1 m) tall	. 5 III. DDF	anu

3. 4. 0 = Total Cover

Remarks: (Explain alternative procedures here or in a separate report.)

Woody Vine Stratum (Plot size: 30 Feet)

1.

2.

(A/B)

(B)

Herb - All herbaceous (non-woody) plants, regardless of

Yes _____ No __X

Woody vines - All woody vines greater than 3.28 ft in

size, and woody plants less than 3.28 ft tall.

height.

Hydrophytic Vegetation Present?

S	0	I	L
-	-		

Profile Desc	ription: (Describe to t Matrix	he depth nee	ded to document th Redo:	1 e indicator x Features	or confirm	the abser	ce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S
0-18	2.5Y 3/1	100					Clay Loam		
		·							
		·			· ·				
					· ·				
					· ·				
	· - <u></u>	·			· ·		·		
		·			· ·				
¹ Type: C=Co	ncentration, D=Depletic	on, RM=Reduc	ed Matrix, MS=Masi	ked Sand Gr	ains.		²Location:	PL=Pore Lining, M	=Matrix.
Lindaia Cail I	n di a cé a na c						Indiantary fay I)	e Celle3.
	(A1)		Debuglue Relev	v Surface /S					
Histosol	(AI) Dinodon (A2)	-	Polyvalue Belov Thip Dark Surfa			1/10P)	Coast Brai	(A 0) (LKK K, L,	DDKID)
Black H	opedon (Λ2)	-		lineral (F1)		(1436)	5 cm Muck	v Peat or Peat (S3	
	n Sulfide (A4)	-	Loamy Gleved I	Matrix (F2)	(EIXIX IX, E)		Dark Surfa		
Stratifie	1 I avers (A5)	-	Depleted Matrix	(F3)			Polyvalue	Relow Surface (S8	-/) (LRR K. L)
Deplete	d Relow Dark Surface (- A11)	Redox Dark Sur	(F6)			Thin Dark	Surface (S9) (LRF	R K. L)
Thick D	ark Surface (A12)	-	Depleted Dark S	Surface (F7)			Iron-Manga	anese Masses (F1)	2) (LRR K, L, R)
Sandy N	lucky Mineral (S1)	-	Redox Depress	ions (F8)			Piedmont I	- Ioodplain Soils (F	19) (MLRA 149B)
- Sandy C	Gleyed Matrix (S4)	-		• •			Mesic Spo	dic (TA6) (MLRA	144A, 145, 149B)
Sandy F	Redox (S5)						Red Paren	t Material (F21)	
Stripped	l Matrix (S6)						Very Shall	w Dark Surface (T	F12)
Dark Su	rface (S7) (LRR R, MI	_RA 149B)					Other (Exp	lain in Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland l	hydrology must be p	resent, unles	ss disturbed	or problen	natic.		
Restrictive L	ayer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil Preser	t? Yes	No
Remarks:									



Upland H - View facing southeast

Package 5

SITE PHOTOGRAPHS

Champlain Hudson Power Express

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

Project/Site: CHPE		City/County: Feura E	Bush/Albany	Sampling Date: 10/21/22			
Applicant/Owner: TDI			State: NY	Sampling Point: Wet P5A-B			
Investigator(s): C.Scrivner & C. Einstein		Section. To	wnship. Range:				
Landform (billside terrace etc.): Slight Dep	ression Local r	elief (concave, conve	ex none): Concave	Slope % 1			
Subregion (LRR or MLRA): LRR R	Lat: 42 59629° N		-73 88727° W/	Olope %			
Soil Man Unit Name: HuB: Hudson silt loam	3 to 8 percent slopes	Long.	NW/L classification:				
Are climatic / hydrologic conditions on the site	sypical for this time of year?	Yes <u>x</u>	No (If no,	explain in Remarks.)			
Are Vegetation, Soil, or Hydrol	ogysignificantly disturb	bed? Are "Norn	nal Circumstances" prese	ent? Yes x No			
Are Vegetation, Soil, or Hydrol	ogynaturally problema	tic? (If needed	d, explain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point loca	ations, transects, ir	nportant features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled A within a Wetland? If yes, optional We	r ea ? Yes X tland Site ID: <u>Near fla</u> g	No) P5A-B-7			
Remarks: (Explain alternative procedures he Palustrine forested wetland. Red-maple hards	re or in a separate report.) vood swamp.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)			
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks	s (B6)			
Surface Water (A1)	Water-Stained Leaves (E	39)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	28)			
Sediment Deposits (B2)	Oxidized Rhizospheres of	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Irc	on (C4)	Stunted or Stressed	Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Positio	n (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	03)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark	ks)	Microtopographic R	elief (D4)			
Sparsely Vegetated Concave Surface (B8	3)		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	No X Depth (inches):	Wetlan	d Hydrology Present?	Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, pre	vious inspections), if	available:				
Remarks:							

Sampling Point: Wet P5A-B

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. Acer rubrum	65	Yes	FAC	Number of Dominant Species				
2. Quercus bicolor	5	No	FACW	That Are OBL, FACW, or FAC:7 (A)				
3. Fraxinus pennsylvanica	5	No	FACW	Total Number of Dominant				
4. Quercus alba	3	No	FACU	Species Across All Strata: 7 (B)				
5. Rhamnus cathartica	2	No	FAC	Bereast of Dominant Species				
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.				Prevalence Index worksheet:				
	80	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15')				OBL species 3 x 1 = 3				
1. Cornus racemosa	15	Yes	FAC	FACW species 25 x 2 = 50				
2. Rhamnus cathartica	15	Yes	FAC	FAC species 137 x 3 = 411				
3. Lonicera morrowii	8	No	FACU	FACU species 44 x 4 = 176				
4. Rosa multiflora	8	No	FACU	UPL species 0 x 5 = 0				
5.				Column Totals: 209 (A) 640 (B)				
6.				Prevalence Index = B/A = 3.06				
7.				Hydrophytic Vegetation Indicators:				
	46	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%				
1. Microstegium vimineum	20	Yes	FAC	$3 - Prevalence Index is \le 3.0^1$				
2. Solidago gigantea	15	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting				
3. Euthamia graminifolia	10	Yes	FAC	data in Remarks or on a separate sheet)				
4. Cornus racemosa	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
5. Solidago canadensis	8	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be				
6. Rosa multiflora	8	No	FACU	present, unless disturbed or problematic.				
7. Lonicera morrowii	5	No	FACU	Definitions of Vegetation Strata:				
8. Carex lupuliformis	3	No	OBL	Tree – Woody plants 3 in (7.6 cm) or more in diameter				
9.				at breast height (DBH), regardless of height.				
10				Sanling/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				
	79	=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				
1Vitis aestivalis	2	No	FACU	height.				
2. Celastrus orbiculatus	2	No	FACU					
3.				Hydrophytic Vegetation				
4				Present? Yes X No				
	4	=Total Cover						
Remarks: (Include photo numbers here or on a separ	ate sheet.)			•				
· · ·	,							

SOIL

Inches Color (moist) % Color (moist) % Type Lcs ² Texture Remarks 0-3 10YR 2/1 100	Depth	Matrix	,	Redo	x Featur	es			
0-9 10YR 2/1 100 Leamy/Clayey 9-19 10YR 5/2 65 10YR 5/6 25 C M Loamy/Clayey Prominent redox concentrations 10YR 5/1 10 D M	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
9-19 10YR 5/2 65 10YR 5/1 10 D M	0-9	10YR 2/1	100					Loamy/Clayey	
Image: Spoil (A1) Im	9-19	10YR 5/2	65	10YR 5/6	25	С	М	Loamy/Clayey	Prominent redox concentrations
Image: Source in the second				10YR 5/1	10		M		
Image: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histoci (A1) Dark Surface (S7) Histoci (A2) Polyvalue Below Surface (S8) (LRR R, Back Histic (A3) Hydrice Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histoci (A1) Dark Surface (S7) Histoci (A2) Polyvalue Below Surface (S8) (LRR R, Back Histic (A3) Hydrice Solified Layers (A6) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (MLRA 1449) Mesic Spodic (A17) Z Sandy Micky Mineral (S1) Depleted Matrix (F3) Sandy Medva (S5) Marl (F10) (LRR K, L) Sandy Medva (S5) Red Parent Material (F21) (MLRA 145) Sandy Medva (S5) Red Parent Material (F21) (MLRA 145) Sandy Medva (S5) Red Parent Material (F21) (MLRA 145) Sandy Medox (S5) Red Parent Material (1011(0/1				·	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histis Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histis (A3) MLRA 149B) Hydrigen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Statified Layers (A5) High Chroma Sands (S11) (LRR K, L) Mesic Spodic (A17) X Depleted Below Dark Surface (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Below Dark Surface (F7) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 149E) Sandy Gleyed Matrix (S4) Red Parent Material (F21) Sandy Gleyed Matrix (S4) Red Parent Material (F21) Sandy Gleyed Matrix (S6) Red Parent Material (F21) Type:								·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Black Histic (A3) MLRA 149B) Hydric Soil Indicators: Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Below Dark Surface (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 145) Sandy Gleyed Matrix (S6) Mearent Material (F21) (MLRA 145) Sandy Redox (S5) Mart (F10) (LRR K, L) Sintypee (If observed): Type: Type: Depleted Iresent? Yee: Yee X									
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Higto Cases Prairie Redox (Af6) (LRR K, L, R) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Meach Surface (A17) X Depleted Matrix (F3) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 1445) Sandy Gleyed Matrix (S6) Matrie (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type:								·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) 5 cm Muck (A10) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck yPeat or Peat (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thon-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149E) Mesic Spodic (A17) X Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S6) Red Parent Material (F21) (MLRA 145) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:								·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) Polyvalue Below Surface (S8) (LRR R, Higt Case Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thin Chark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) X Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 1445) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 1445) Sandy Redox (S5) Marl (F10) (LRR K, L) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Restrictive Layer (if observed): Type: Type:									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (A11) Doarky Mineral (F1) (LRR K, L) Mesic Spodic (A17) X Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Mari (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrigen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) Lark Surface (F6) Mesic Spodic (A17) X X Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matrix (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type:								·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (A12) Mesic Spodic (A17) X Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:								·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S1) Thin Dark Surface (S1) Mesic Spodic (A17) X Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Polyvalue Below Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 1445) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Depth (inches): Hydric Soil Present? Yes X No									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	IS=Mask	ed Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Y Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (A17) X Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils ³ :
Histic Epipedon (A2) PolyValue Below Surface (S8) (LRR R, MLRA R, L, R) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) X Depleted Below Dark Surface (A12) Mesic Spodic (A17) X MLRA 144B) Redox Depressions (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matrix (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Restrictive Layer (if observed): Type: Type: Depth (inches):	Histosol	(A1)		Dark Surface (S7)	(00) (2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
Black Histic (NS) MILKA (1495) Strik (1495) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) Mesic Spodic (A17) X Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Histic Ep	opedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	_RR R,	Coast Pr	rairie Redox (A16) (LRR K, L, R)
Indicident (A) Image: Dath Contact (CO) (Entrement (A)) Indication (C) (Entrement (A)) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No		SIIC (A3) In Sulfide (Δ4)		Thin Dark Surf) iace (99)		MIRA 1	5 cm wu (49B) Polwalu	Below Surface (S8) (LRR K, L, K)
X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149 (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	Stratified	l avers (A5)		High Chroma S	Sands (S	(LRF	R K. L)	Thin Dar	rk Surface (S9) (LRR K, L)
Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B Mesic Spodic (A17) X Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	X Depleted	d Below Dark Surface	(A11)	Loamy Mucky	Mineral (F1) (LRF	R K. L)	Iron-Mar	nganese Masses (F12) (LRR K. L. R)
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(MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and Sandy Redox (S5) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Mesic Sp	podic (A17)		X Depleted Matri	x (F3)			Red Par	ent Material (F21) (outside MLRA 145
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and Sandy Redox (S5) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	(MLR	A 144A, 145, 149B)		Redox Dark S	urface (F	6)		Very Sha	allow Dark Surface (F22)
Sandy Gleyed Matrix (S4)	Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Remarks)
Sandy Redox (S5) Marl (F10) (LRR K, L) Indicators of hydrophytic vegetation and Stripped Matrix (S6) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Sandy G	Bleyed Matrix (S4)		Redox Depres	sions (F8	3)		3	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): unless disturbed or problematic. Type: Yes X No Depth (inches): Yes X No	Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			°Indicato	ors of hydrophytic vegetation and
Restrictive Layer (if observed):	Stripped	Matrix (S6)		Red Parent Ma	aterial (F2	21) (MLF	(A 145)	wetian	nd hydrology must be present,
Type:	Restrictive I	aver (if observed):						uniess	s disturbed or problematic.
Depth (inches):	Type:	Layer (il observed).							
	Denth (ir	nches).						Hydric Soil Preser	nt? Yes X No



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

Project/Site: CHPE	City/County: Feura Bush/Albany Sampling Date: 10/21/22					
Applicant/Owner: TDI	State: NY Sampling Point: Upl P5A-B					
Investigator(s): C.Scrivner & C. Einstein	Section, Township, Range:					
Landform (hillside, terrace, etc.): Flat Loca	al relief (concave, convex, none): None Slope %: 0					
Subregion (I RR or MI RA): I RR R Lat: 42.59669° N	Long: -73.88751°W Datum: WGS.84					
Soil Map Unit Name: HuB: Hudson silt loam. 3 to 8 percent slopes	NWI classification: NA					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circumstances" present? Yes <u>x</u> No					
Are Vegetation, Soil, or Hydrologynaturally proble	matic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1)Water-Stained Leaves	39) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odd	r (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Oxidized Rhizosphere	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Recent Iron Reduction	n in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C	7) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	arks)Microtopographic Relief (D4)					
Sparsely vegetated Concave Surface (66)						
Field Observations:						
Water Table Present? Yes No X Depth (inches	>)					
Saturation Present? Yes No X Depth (inches	s) (x) Wetland Hydrology Present? Yes No X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:					
Remarks:						

Sampling Point: Upl P5A-B

Troo Stratum (Plot size: 20)	Absolute	Dominant	Indicator	Dominance Test worksheet:				
1 Pinus strobus	<u>/// Cover</u>	Vee	FACU	Dominance rest worksheet.				
	- 40	Vee	FACO	Number of Dominant Species				
				That Are OBL, FACW, of FAC. 4 (A)				
3. Quercus alba 4.	8		FACU	Total Number of Dominant Species Across All Strata: 9 (B)				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 44.4% (A/B)				
7				Prevalence Index worksheet:				
···	73	-Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15')				$\frac{1}{\text{OBL species}} \qquad 0 \qquad \text{x1} = 0$				
1 Rhamnus cathartica	10	Yes	FAC	EACW species $0 \times 2 = 0$				
	5	 	FACU	$\frac{1}{1} = \frac{1}{1} = \frac{1}$				
2		103	1400	$\frac{1}{100} \frac{1}{100} \frac{1}$				
3								
4				$\begin{array}{c} \text{OFL species} \\ \text{OFL species} \\$				
5				$\begin{array}{c} \text{Column lotais:} \underline{132} \\ \text{Column lotais:} \underline{132} \\ \text{Column lotais:} \underline{132} \\ \text{Column lotais:} \\ \text{Column lotais:} \\ \underline{132} \\ \underline{132} \\ \text{Column lotais:} \\ \underline{132} \\ \underline$				
6.				Prevalence Index = B/A = 3.60				
7				Hydrophytic Vegetation Indicators:				
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%				
1. <u>Toxicodendron radicans</u>	15	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹				
2. <u>Cornus racemosa</u>	8	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting				
3. Lonicera morrowii	8	Yes	FACU	data in Remarks or on a separate sheet)				
4. Rosa multiflora	8	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)				
5				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7				Definitions of Vegetation Strata:				
8								
9				Tree – Woody plants 3 in. (7.6 cm) or more in diameter				
10								
11				Sapling/shrub – Woody plants less than 3 in. DBH				
12		- <u></u>						
12.	20	-Total Cover		Herb – All herbaceous (non-woody) plants, regardless				
Weady Vina Stratum (Plataiza: 20')								
(Plot size:)	-	Maa	FACU	Woody vines – All woody vines greater than 3.28 ft in				
	5	res	FACU	neight.				
2				Hydrophytic				
3.				Vegetation				
4				Present? Yes <u>No X</u>				
	5	=Total Cover						
Remarks: (Include photo numbers here or on a separate	ate sheet.)							

SOIL

Profile Desc	ription: (Describe t	o the dep	th needed to docu	ment th	e indica	tor or co	nfirm the absence of indic	ators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-10	10YR 4/2	100					Loamy/Clayey		
10-15	10YR 5/3	90	10YR 4/6	10	С	М	Sandy	Distinct redox c	oncentrations
				_					
¹ Type: C=Co	ncentration, D=Depl	etion, RM	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=Pc	ore Lining, M=Ma	atrix.
Hydric Soil I	ndicators:						Indicators for Pr	oblematic Hydi	ric Soils ³ :
Histosol	(A1)		Dark Surface (S7)			2 cm Muck (A	10) (LRR K, L,	MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast Prairie	Redox (A16) (L	RR K, L, R)
Black His	Black Histic (A3))			5 cm Mucky I	Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue Be	ow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	11) (LRF	R K, L)	Thin Dark Su	rface (S9) (LRR	K, L)
Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral (F1) (LRF	R K, L)	Iron-Mangan	ese Masses (F1	2) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (I	-2)		Piedmont Flo	odplain Soils (F	19) (MLRA 149B)
Mesic Sp	odic (A17)		Depleted Matri	x (F3)			Red Parent M	laterial (F21) (o	utside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	urface (F	6)		Very Shallow	Dark Surface (F	-22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explai	n in Remarks)	
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F8	3)				
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicators of	hydrophytic veg	etation and
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLF	A 145)	wetland hy	drology must be	present,
							unless dist	urbed or probler	natic.
Restrictive L	ayer (if observed):								
Туре:	Roc	k							
Depth (in	ches):	15					Hydric Soil Present?	Yes	<u>No X</u>
Remarks:									



Upland P5A-B - View facing east



Upland P5A-B - Soils

Segment 8 – Package 5A

SITE PHOTOGRAPHS

Champlain Hudson Power Express

Project/Site:	Champlain Hu	dson Power Express	s City/Cou	Inty: New S	Scotland, Alba	any County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt En	gineering Group		Sta	ate: New York	Sampling Point:	WG-1W
Investigator(s):		MA, KC	Section,	Township, Range	e:	Town o	of New Scotland	
Landform (hillslope, te	errace, etc):	Floodplain	Local relief (conc	ave, convex, non	ne):	concave	Slop	e (%): 0-3
Subregion (LRR or ML	_RA):	LRR R	Lat: 42.	59513259	Long:	-73.8866019	91 Datu	Im: WGS 1984
Soil Map Unit Name:		F	ludson silt loam			NWI classification	on: F	Riverine
Are climatic / hydrolog	ic conditions on the	e site typical for this t	time of year? Yes	X No	(If no,	- explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbe	d? Are	• "Normal Circ	umstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally problemation	c? (Ifr	needed, expla	in any answers in	Remarks.)	
SUMMARY OF FI	INDINGS - Atta	ach site map sh	owing sampling p	oint location	is, transec	ts, important	features, etc.	
Hydronhytic Vegeta	tion Present?	Yes X	<u>No</u>	Is the Sample	d Area			
Hydric Soil Present	2		. No	within a Wetla	and?	Ves X	No	
Wetland Hydrology	Present?		. No	If yes optional	I Wetland Site		WG_1W PEM	_
wedand Hydrology	resenti					· ID:	WG-IWI EM	
Remarks: (Explain a PEM w	alternative procedur	res here or in a sepa g Stream B at the ba	rate report.) se of a steep slope lead	ling to the railroad	d tracks.			
Identified as	Wetland EI	JR-G on wetl	land mapping a	and in repo	rt text.			
HYDROLOGY								
Wotland Hydrology	u Indiantoro							
Primany Indicators (y mulcators.	guirod: chook all that	t apply)			Secondary Indias	toro (minimum o	two required)
Y Surface Water		ulleu, check all that	Water Stained Leaves	(P0)		Surface Soil	Crocks (B6)	two required)
Lich Water Tak	(A1)	<u>^</u>	Aquatio Equipo (B13)	(09)		Drainage Br	ttome (B10)	
Saturation (A3)			Marl Deposits (B15)			Drainager a	ines (B16)	
Water Marks (F	/ 31)	x	Hydrogen Sulfide Odor	(C1)			Water Table (C2)
Sediment Den	ocite (R2)	<u>x</u>	Ovidized Rhizosnheres	on Living Roots	(C3)	Dry-Octason	mowe (C8))
Drift Deposits (122)	<u></u>	Prosence of Reduced I		(03)	Clayion Do	/icible on Aerial Ir	noden/ (C9)
			Presence or neutron	in Tillod Soile (Cf	e)	Saturation v	Sible on Aeria in Proceed Plants (
	(USL (D4)		This Muck Surface (C7		0)	Stunted of 3	Desition (D2)	JT)
Inundation Visi	BD) Els en Acrial Imag		Other /Eveloin in Pom) 				
	ble on Aenai Image	эту (D7)	Other (Explain in Rema	arks)		Shallow Aqu	ultaru (D3) Joshia Daliaf (D4)	
Sparsely vege	lated Concave Sun					Microlopogr	apriic Relier (D4) LTost (D5)	
							r lest (D5)	
Field Observations	3:							
Surface Water Pres	ent? Yes	X No	Depth (inches):	0.5				
Water Table Presen	t? Yes	No X	Depth (inches):					
Saturation Present?	Yes	No X	Depth (inches):	v	Netland Hydr	rology Present?	Yes X	No
(includes capillary fr	ringe)				-			
	- /							
Describe Recorded	Data (stream gaug	e, monitoring well, a	erial photos, previous ir	spections), if ava	ailable:			
Domostro								
Remarks:								

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EGETATION - Use scientific names of plants.					Sampling Po	oint: <u>W</u>	/G-1W
				Dominance Test worksh	eet:		
				Number of Dominant Spe	cies		
		D : /		That Are OBL, FACW, or	FAC:	3	(A)
	Absolute	Dominant	Indicator				
Iree Stratum (Plot size: <u>30 Feet</u>)	% Cover	_ Species?	Status	Total Number of Dominan	t		
1. Prunus serotina / Black cherry	10	Yes	FACU	Species Across All Strata		5	(B)
2			·				_ ` /
3			·	Percent of Dominant Spe	cies		
4	·		·	That Are OBL. FACW. or	FAC:	60.0	(A/B)
5				· · ,			_ (' '
6			·	Prevalence Index works	heet:		
7			·	Total % Cover of:		Multiply by:	
	10	_ = Total Cove	er	OBL species 5	x 1 =	5	
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species 35	x 2 =	70	
1. Cornus alba / Red osier	5	Yes	FACW	FAC species 90	x 3 =	270	
2				FACU species 10	x 4 =	40	
3				UPL species 30	x 5 =	150	
4				Column Totals: 17) (A)	535	(B)
5							
6				Prevalence Index =	B/A =	3.15	
7							
	5	= Total Cov	er	Hydrophytic Vegetation	Indicators:		
Herb Stratum (Plot size: 5 Feet)				1 - Rapid Test for Hy	drophytic Veg	getation	
1. Microstegium vimineum / Japanese stilt grass	70	Yes	FAC	X 2 - Dominance Test i	s >50%		
2. Solidago gigantea / Smooth goldenrod	30	Yes	FACW	3 - Prevalence Index	≤3.0¹		
3. Euthamia graminifolia / Flat-top goldentop	20	No	FAC	4 - Morphological Ad	aptations ¹ (P	rovide suppo	orting
4. Schoenoplectus tabernaemontani / Softstem bulrush, Soft-st	5	No	OBL	Problematic Hydroph	ytic Vegetatio	on¹ (Explain)
5			. <u> </u>				
6				¹ Indicators of hydric soil a	nd wetland h	ydrology mu	st
7				be present, unless disturb	ed or probler	natic.	
8					.		
9				Definitions of Vegetation	n Strata		
10							
11			<u> </u>	Tree - Woody plants 3 in.	(7.6 cm) or n rdloss of boir	nore in diam	eter at
12			. <u> </u>	breast neight (DBH), rega		JIII.	
Woody Vine Stratum (Diet size: 20 East)	125	_ = Total Cov	er	greater than or equal to 3	lants less tha 28 ft (1 m) ta	an 3 in. DBH III.	and
1 Celestrus orbiculatus / Asian bittersweet	20	Vee	LIDI	Herb - All herbaceous (no	n-woody) pla	ints, regardle	ess of
				size, and woody plants le	s than 3.28 f	t tall.	
2			·	Woody vines - All woody	vines greate	r than 3.28 f	t in
4	·			height.	0		
	30	= Total Cov	er	Hydrophytic			
				Vegetation			
				Present? Ve	з X I	No	
					<u> </u>		•

S	0	I	L
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Depth	Matrix		Redox	<pre>K Features</pre>						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	marks	
0-5	10YR 4/2	90	10YR 4/6	10	С	PL	Clay Loam			
5-18	10Y 3/1	98	10YR 3/6	2	С	PL	Clay Loam			
Гуре: C=Con	centration, D=Depletic	on, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	rains.		²Location: F	L=Pore Linir	ıg, M=M	atrix.
Histosol (Histic Ep Black His Depleted Thick Da Sandy M Sandy Gl Sandy Re Stripped Dark Sur	(A1) ipedon (A2) attic (A3) a Sulfide (A4) Layers (A5) Below Dark Surface (rk Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, Mil	(A11) LRA 149B)	 Polyvalue Belov Thin Dark Surfa Loamy Mucky M X Loamy Gleyed I X Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi 	v Surface (S ce (S9) (LF lineral (F1) Matrix (F2) (F3) face (F6) Surface (F7) ions (F8)	8) (LRR R, RR R, MLR4 (LRR K, L)	MLRA 149 A 149B)	2 cm Muck Coast Prairi 5 cm Mucky Dark Surfac Polyvalue B Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl	A10) (LRR Peat or Pea e (S7) (LRF elow Surface urface (S9) nese Masses oodplain Soi c (TA6) (Mi Material (F2 v Dark Surfa ain in Remar	K, L, ML 6) (LRF t (S3) (I R K, L)	2007 RA (149B) R K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (MLRA 149B) (A, 145, 149B)
ndicators of I	hydrophytic vegetatior ayer (if observed):	n and wetlan	d hydrology must be p	resent, unle:	ss disturbed	l or probler	natic.			
Туре:										
Depth (inc	hes):						Hydric Soil Presen	? Yes	<u> </u>	No
emarks:										



Project/Site:	Champlain Hu	udson Power Expres	SS	City/Cou	nty: Ne	w Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:	•	Kiewitt E	ngineering Gro	bup		Sta	ate: New York	Sampling Point	WG-1U
Investigator(s):		MA, KC		Section,	Township, Ra	nge:	Town o	of New Scotland	
Landform (hillslope, te	rrace, etc):	Hillslope	Local re	elief (conc	ave. convex. I	none):	convex	Slo	oe (%): 3-8
Subregion (LRR or ML	.RA):	LRR R	Lat:	42.	59527112	Long:	-73.8868243	39 Dat	um: WGS 1984
Soil Map Unit Name:			Hudson silt loa	am		0	NWI classificatio	on:	
Are climatic / hydrologi	ic conditions on th	e site typical for this	time of year?	Yes	X No	(If no,	– explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantl	ly disturbe	d?	Are "Normal Cire	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic	?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map sl	howing sam	npling p	oint locati	ons, transec	ts, important	features, etc	-
Hydrophytic Vegetat	ion Present?	Yes	No X	1	Is the Sam	nled Area	, ,	,	_
Hydric Soil Present?)	Yes		_	within a W	etland?	Yes	No X	
Wetland Hydrology I	Present?	Yes		_	If ves. optio	nal Wetland Site	= ID:		
				_					
Remarks: (Explain a Upland	Iternative procedu I point for PEM we	res here or in a sep tland G on hillslope.	arate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (r	minimum of one re	equired: check all the	at apply)				Secondary Indica	ators (minimum c	f two required)
Surface Water	(A1)	quired, britter un un	Water-Staine	dleaves	(B9)		Surface Soil	Cracks (B6)	
High Water Tab	le (A2)		Aquatic Faun	a (B13)	()		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits	s (B15)			Moss Trim L	.ines (B16)	
Water Marks (E	31)		Hydrogen Su	lfide Odor	(C1)		Dry-Season	Water Table (C2	.)
Sediment Depo	osits (B2)		Oxidized Rhiz	zospheres	on Living Roo	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of F	Reduced I	ron (C4)		Saturation V	isible on Aerial l	magery (C9)
Algal Mat or Cr	ust (B4)		Recent Iron F	Reduction	in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B	35)		Thin Muck Su	urface (C7)		Geomorphic	Position (D2)	
Inundation Visil	ble on Aerial Imag	ery (B7)	Other (Explai	in i <mark>n Re</mark> ma	ırks)		Shallow Aqu	uitard (D3)	
Sparsely Veget	ated Concave Sur	face (B8)					Microtopogr	aphic Relief (D4))
							FAC-Neutra	l Test (D5)	
Field Observations									
Surface Water Prese	 ent? Yes	s No X	Depth (inch	es):					
Water Table Present	l? Yes		Depth (inch/	es):					
Saturation Present?	Yes		Depth (inch/	es):		Wetland Hvd	roloav Present?	Yes	No X
(includes capillary fr	inge)					····· · ··· ·			
(
Describe Recorded	Data (stream gaug	je, monitoring well,	aerial photos, p	previous in	spections), if	available:			
Remarks:									
rtemarks.									
1									

VEGETATION - Use scientific names of plants.					Sam	oling Poir	nt:W	3-1U
				Dominance Test	worksheet:			
				Number of Domina	ant Species			
				That Are OBL, FAG	CW. or FAC:		3	(A)
	Absolute	Dominant	Indicator	,	,			_ ` ´
Tree Stratum (Plot size: <u>30 Feet</u>)	% Cover	Species?	Status	Total Number of D	ominant			
1. Fraxinus pennsylvanica / Green ash		Yes	FACW	Species Across Al	I Strata:		8	(B)
2. Acer saccharum / Sugar maple		_ Yes	FACU					_ ` ´
3. Prunus serotina / Black cherry	10	Yes	FACU	Percent of Domina	ant Species			
4				That Are OBL, FAG	CW, or FAC:		37.5	(A/B)
5								,
6				Prevalence Index	worksheet:			
<i>I</i>				Total % Cove	r of:	M	ultiply by:	
	50	= lotal Cov	er	OBL species	0	_ x 1 = _	0	
Sapling/Shrub Stratum (Plot size: 15 Feet)	40	N/ -	540	FACW species	20	x 2 = _	40	
1. Rnamnus catnartica / European bucktnorn		_ Yes		FAC species	30	x 3 = _	90	
2. Lonicera morrowii / Morrow's noneysuckie	10	Yes	FACU	FACU species	50	. × 4 = _	200	
3				UPL species	10	x 5 = _	50	
4				Column Totals:	110	. (A) _	380	(B)
5								
0				Prevalence	ndex = B/A =		3.45	
<i>I</i>		- Total Carr				-4		
Llash Stratum (Distaire) E Fast	20		er	A Danid Test		ators;	tation	
Herb Stratum (Piot Size: <u>5 Feet</u>)	20	Vaa	540		. Tor Hydrophy	yuc vege	lation	
Dryopiens intermedia / Evergreen wood iem		Yes		2 - Dominance		70		
2. Rubus / Blackbell y	10	Yee		5 - Prevalence	e index ≤3.0"	na 1/Dra	vide europe	ting
		105	FACU	4 - Morpholog	Judrophytic V		1 (Evoloin.)	ung
4						egetation	(⊏xpiain)	
5				Indicators of hydri	ic coil and we	tland byc		•
7				he present unless	disturbed or	nroblem	atic	L L
8				be present, unless		probleme	alio.	
9				Definitions of Veg	getation Stra	ta		
0 10					-			
11				Tree - Woody plan	its 3 in. (7.6 c	m) or mo	re in diame	ter at
12	_	_		breast height (DBH	1), regardless	of heigh	t.	
12	40	= Total Cov	er	Sapling/shrub - V	Voody plants	less than	3 in. DBH a	and
Woody Vine Stratum (Plot size: 30 Feet)		-		greater than or equ	ual to 3.28 ft ((1 m) tall.		
1.				Herb - All herbace	ous (non-woo	ody) plan	ts, regardle	ss of
2.				size, and woody pl	lants less that	n 3.28 ft i	tall.	
3.				Woody vines - All	woody vines	greater t	han 3.28 ft	in
4.				height.				
	0	= Total Cov	er					
		-		Hydrophytic				
				Vegetation				
				Present?	Yes	No	<u> </u>	
Remarks: (Explain alternative procedures here or in a separate	e report.)			-				

S	0	I	L
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Profile Desc Depth	ription: (Describe to t Matrix	the depth ne	eded to document t Redo	h e indicator x Features	or confirm	the absen	ce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	s
0-12	10YR 2/1	100						T to mark	
12-18	10YR 4/3	100							
12-10	1011(4)3								
	·								
	- <u> </u>				·				
					·				
	·				·				
					·				
¹ Type: C=Co	ncentration, D=Depletio	on, RM=Red	uced Matrix, MS=Mas	ked Sand G	ains.		² Location: PL	=Pore Lining, M	=Matrix.
Hydric Soil	ndicators:						Indicators for Pro	blematic Hydri	ic Soils³:
Histosol	(A1)		Polyvalue Belov	w Surface (S	8) (LRR R,	MLRA 149	B) 2 cm Muck (A	10) (LRR K, L,	MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LF	RR R, MLRA	A 149B)	Coast Prairie	Redox (A16) (I	LRR K, L, R)
Black H	istic (A3)		Loamy Mucky N	/lineral (F1)	(LRR K, L)		5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark Surface	(S7) (LRR K, I	∟)
Stratifie	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue Bel	ow Surface (S8) (LRR K, L)
 Deplete	d Below Dark Surface ((A11)	Redox Dark Su	rface (F6)			Thin Dark Su	face (S9) (LRF	RK,L)
Thick D	ark Surface (A12)	. ,	Depleted Dark	Surface (F7)			Iron-Mangane	ese Masses (F1)	2) (LRR K, L, R)
Sandv M	/uckv Mineral (S1)		Redox Depress	ions (F8)			Piedmont Flo	odplain Soils (F [.]	19) (MLRA 149B)
Sandy (Gleved Matrix (S4)		_	()			Mesic Spodic	(TA6) (MLRA	144A, 145, 149B)
Sandy F	Redox (S5)						Red Parent M	laterial (F21)	,,,
Stripper	Matrix (S6)						Very Shallow	Dark Surface (T	F12)
Outpped	rfaaa (S7) (IDDD M	DA 1400)					Other (Eveloi	bark odnace (1	1 12)
		LIVA 143D)						in in Remarks)	
³ Indicators of	hydrophytic vegetatior	n and wetland	d hydrology must be p	resent, unle	ss disturbed	or problem	natic.		
Restrictive I	_aver (if observed):								
Type:	, , , , , , , , , , , , , , , , , , ,								
Depth (in	iches).						Hydric Soil Present?	Yes	No X
Dopar (i								100	
Remarks:									



Upland G - View facing northwest



Upland G - Soils

Package 5

SITE PHOTOGRAPHS

Champlain Hudson Power Express

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

Project/Site: CHPE Ci	ty/County: Feura Bush/Albany Sampling Date: 8/24/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-O We
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): terrace Local relie	ef (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42 35 41N	Long:73 53 13W Datum: WGS84
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	<pre>1? Are "Normal Circumstances" present? Yes x No</pre>
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:near flag P5-O-4
Remarks: (Explain alternative procedure Shrub swamp.	es here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
Surface Water (A1)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	x Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8	3)	X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	
Water Table Present? Yes	No x Depth (inches):	
Saturation Present? Yes	No x Depth (inches): Wetla	and Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspections),	if available:
Remarks:		

Sampling Point: P5-O Wet

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus deltoides	20	Yes	FAC	Number of Dominant Species
2. Rhamnus cathartica	5	Yes	FAC	That Are OBL, FACW, or FAC: 8 (A)
3				Total Number of Dominant
4				Species Across All Strata: 9 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 88.9% (A/B)
7.				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 15 x 1 = 15
1. Cornus amomum	50	Yes	FACW	FACW species 120 x 2 = 240
2. Rosa multiflora	10	No	FACU	FAC species 60 x 3 = 180
3. Rhamnus cathartica	10	No	FAC	FACU species 15 x 4 = 60
4. Cornus racemosa	5	No	FAC	UPL species 0 x 5 = 0
5	-			Column Totals 210 (A) 495 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7		·		Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1 / vsimachia nummularia	30	Yes	FACW	X_{3} - Prevalence Index is <3 0 ¹
2 Equisetum anyense	20	Ves	FAC	4 - Morphological Adaptations1 (Provide supporting)
3 Onoclea sensibilis	15	 	EACW	data in Remarks or on a separate sheet)
Utbrum solicorio	15	<u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)
	15	<u> </u>		
	10			¹ Indicators of hydric soil and wetland hydrology must
6. Impatiens capensis	10		FACVV	be present, unless disturbed or problematic.
<i>I.</i>		·		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
	105	=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	5	Yes	FACU	height.
2				l hadron ha dia
3		·		Vegetation
4				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/1	65	5YR 4/4	25	c	PL/M	Loamy/Clayey	Prominent redox concentrations
			10YR 5/6	10	с	m		Prominent redox concentrations
10-16	10YR 4/1		10YR 4/4	30	C		Loamy/Clayey	Distinct redox concentrations
'Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:			o =)			Indicators f	or Problematic Hydric Soils':
Histosol	(A1)		Dark Surface (S7)	(00) (2 cm Mi	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	Coast P	rairie Redox (A16) (LRR K, L, R)
	stic (A3)		MLRA 149B)			5 cm Mi	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surfa	ace (S9)		, MLRA 1	149B) Polyvalu	le Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	511) (LRI	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) (LR 50)	R K, L)	Iron-Mai	nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed	Matrix (v (E3)	F2)		Pleamoi	nt Floodplain Solis (F19) (MLRA 149B) rept Material (E21) (outside MLBA 145)
	Δ 144Δ 145 149B)		X Redox Dark Su	rface (F	6)		Very Sh	allow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	Explain in Remarks)
Sandy G	leyed Matrix (S4)		x Redox Depress	sions (F8	3)		、	,
Sandy R	edox (S5)		 Marl (F10) (LR	R K, L)			³ Indicato	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) (MLF	RA 145)	wetlar unless	nd hydrology must be present, s disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: -								
Depth (in	iches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								

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

Project/Site: CHPE	City/County: Feura Bush/Albany Sampling Date: 8/24/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-O Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local r	elief (concave, convex, none): <u>convex</u> Slope %: <u>45</u>
Subregion (LRR or MLRA): LRR R Lat: 42 35 41N	Long: _73 53 13W Datum: WGS84
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	ed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P5-O-4
Remarks: (Explain alternative procedure Field.	s here or in a separate report.)	

HYDROLOGY

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

Sampling Point: P5-O Upl

	Bonnan	indioutor	
Tree Stratum (Plot size: 30') % Cover	Species?	Status	Dominance Test worksheet:
1.			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3			Total Number of Dominant Species Across All Strata:4(B)
5. 6.			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')			OBL species 0 x 1 = 0
1. Rhus typhina 30	Yes	UPL	FACW species 0 x 2 = 0
2.			FAC species $0 \times 3 = 0$
3.			FACU species 75 x 4 = 300
4.			UPL species 70 x 5 = 350
5.			Column Totals: 145 (A) 650 (B)
6.			Prevalence Index = $B/A = 4.48$
7			Hydrophytic Vegetation Indicators:
30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')			2 - Dominance Test is >50%
1 Frigeron canadensis 60	Ves	FACU	$\frac{2}{3} - \text{Prevalence Index is } < 3.0^{1}$
Artemisia vulnaris 40	Ves		4 - Morphological Adaptations ¹ (Provide supporting
	163		data in Remarks or on a separate sheet)
5			Problematic Undersplutic Magnetation ¹ (Evaluin)
4			
5			¹ Indicators of hydric soil and wetland hydrology must
6			be present, unless disturbed or problematic.
7			Definitions of Vegetation Strata:
8			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.			Sanling/shruh – Woody plants less than 3 in DBH
11.			and greater than or equal to 3.28 ft (1 m) tall.
12.			Harb All berbasseus (non weeds) plants, regardless
100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')			Mandausinen Allussedusinen mententien 2.20 film
1. Vitis aestivalis 15	Yes	FACU	height.
2			I hadron ha dia
3			Vegetation
4			Present? Yes No X
15	=Total Cover	_	
Remarks: (Include photo numbers here or on a separate sheet.)			1

Profile Desc	ription: (Describe t	o the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence of indicators.)	
Depth	Matrix		Redo	ox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	;
		·			·			
		·			·			
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, I	MS=Mas	ked Sand	Grains.	² Location: PL=Pore Lining, M=Matri	х.
Hvdric Soil I	ndicators:	,	,				Indicators for Problematic Hydric	Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2 cm Muck (A10) (LRR K. L. ML	RA 149B)
Histic Ep	ipedon (A2)		Polyvalue Bel	ow Surfa	ice (S8) (I	RR R.	Coast Prairie Redox (A16) (LRR	K. L. R)
Black His	stic (A3)		MLRA 149E	3)		,	5 cm Mucky Peat or Peat (S3) (LRR K. L. R)
Hydroge	n Sulfide (A4)		Thin Dark Sur	face (S9			149B) Polyvalue Below Surface (S8) (I	
Stratified	Lavers (Δ5)		High Chroma	Sands (9		R I V	Thin Dark Surface (S9) (I BR K	1)
Depleted	Below Dark Surface	(Δ11)	Loamy Mucky	Mineral	(F1) (I RI	R K I)	Iron-Manganese Masses (E12) (
Thick Da	rk Surface (A12)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Loamy Glever	Matrix /	(F2)	、 τ、 Ε)	Piedmont Eloodalain Soils (F19)	(MI RA 149B)
Mesic Sr	nodic (A17)		Depleted Matr	iv (E3)	(12)		Red Parent Material (F21) (outs	
	A 144A 145 149B)		Depleted Mati	urfaco (l	-6)		Voru Shallow Dark Surface (E22	
Sandy M	ucky Minoral (S1)		Nedox Dark S		0) (E7)		Other (Explain in Remarks))
Sandy G	loved Matrix (S1)		Depleted Dark	cione (E	5 (F7) 29)			
Sandy B	eyeu Maliix (34)		Mod (E10) (LE		0)		³ Indiactors of hydrophytic yearts	tion and
Saliuy R	Hotrix (SG)		Mail (F10) (LF	(R R, L)	-04) (MI F	A 44E)		
	Matrix (56)			aterial (F	-21) (WILF	(A 145)	welland hydrology must be pre	esent,
Destrictive I							uniess disturbed or problemat	IC.
Restrictive L	ayer (if observed):							
I ype: -								
Depth (in	iches):						Hydric Soil Present? Yes	No <u>X</u>
Remarks:								
Soils conist c	of railroad ballast.							
1								

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

Project/Site: CHPE		City/Count	y: New Scotland/Albany		Sampling Date:	8/24/22
Applicant/Owner: T	וכ		State:	NY	Sampling Point	: P5-N Wet
Investigator(s): C. Einst	ein & J. Greaves	Se	ection, Township, Range:			
Landform (hillside, terrad	e, etc.): linear depression	Local relief (conca	ve, convex, none): <u>conca</u>	ave	Slope	e %: <u>5</u>
Subregion (LRR or MLR	A): LRR R Lat:	42 35 33N	Long: <u>-73 53 05W</u>		Datum:	WGS84
Soil Map Unit Name: R	hA - Rhinebeck silty clay loam, (0 to 3 percent slopes	NWI class	ification:	PEM2	
Are climatic / hydrologic	conditions on the site typical for	this time of year?	Yes <u>x</u> No	(lf no, e	explain in Remarks	s.)
Are Vegetation,	Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstand	ces" prese	nt? Yes <u>x</u>	No
Are Vegetation,	Soil, or Hydrology	naturally problematic?	(If needed, explain any a	nswers in	Remarks.)	
	DINCE Attach site may		at leastions trans		n autaut faat	

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

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

HYDROLOGY

Wettand Hydrology matcators.		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)		
X Surface Water (A1)	_x_Water-Stained Leaves (B9)	Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)		
x Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	x Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes x	No Depth (inches): 1			
Water Table Present? Yes x	No Depth (inches): 0			
Saturation Present? Yes x	No Depth (inches): 0 Wetlar	d Hydrology Present? Yes X No		
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections), if	available:		

Sampling Point: P5-N Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3. 4.				Total Number of Dominant Species Across All Strata:1(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 10 x 1 = 10
1.				FACW species 65 x 2 = 130
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 75 (A) 140 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Banid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1 Phragmites quetralis	60	Voc		X_2^2 = Dominance restrict 500%
	5	No		$\frac{1}{4}$ - Morphological Adaptations ¹ (Provide supporting
		No		data in Remarks or on a separate sheet)
3. Lythrum sancana				Decklowering the decade dis Monotories 1 (Fourtain)
4. Bidens frondosa	5	NO	FACW	Problematic Hydrophytic Vegetation (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12	75	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30') 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Veretetion
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
	,			

SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument ti	he indica	ator or c	onfirm the absence of	indicators.)		
Depth	Matrix		Redo	x Featur	res					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	R	emarks	
0-5	10YR 2/1	80	10YR 5/8	20	C	pl	Mucky Sand	Prominent re	dox con	centrations
5-16	10YR 3/1	90	10YR 4/4	10	C			Distinct red	ox conce	entrations
5-16	10YR 3/1	90 	10YR 4/4	 	 ked Sand ce (S8) () (LRR R 511) (LRI (F1) (LRI (F1) (LRI (F2) 56) 2 (F7) 8) 221) (MLF	 	2 2 2 2 2 2 2 2 2 2 2 2 2 2	Distinct rede	I=Matrix I=Matrix Ight Ight </td <td>entrations</td>	entrations

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

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 8/24/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-N Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local re	lief (concave, convex, none): <u>convex</u> Slope %: <u>45</u>
Subregion (LRR or MLRA): LRR R Lat: 42 35 33N	Long:73 53 05W Datum: WGS84
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	ed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problemat	ic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	bling point locations, transects, important features, etc.

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

HYDROLOGY

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

Sampling Point: P5-N Upl

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant Species Across All Strata: 1 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	:	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species 5 $x 2 = 10$
2.				FAC species $0 \times 3 = 0$
3.				FACU species 0 x 4 = 0
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 5 (A) 10 (B)
6.				Prevalence Index = $B/A = 2.00$
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1 Phragmites australis	5	Vec	FACW	$\frac{1}{3}$ - Prevalence Index is $\leq 3.0^{1}$
2		103	1400	4 - Morphological Adaptations ¹ (Provide supporting
2.				data in Remarks or on a separate sheet)
3				
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
/				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
12.				Herb – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30') 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2				Hydrophytic
3				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	ription: (Describe t	o the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence of indicators.)	
Depth	Matrix		Redo	ox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
		·			·			
		·			·			
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, I	MS=Mas	ked Sand	Grains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:	,	,				Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Dark Surface	(S7)			2 cm Muck (A10) (LRR K. L. MLRA 149	3)
Histic Fr	pipedon (A2)		Polyvalue Bel	ow Surfa	ice (S8) (I	RR R.	Coast Prairie Redox (A16) (LRR K. L. R)	- /
Black Hi	stic (A3)		MLRA 149E	3)		,	5 cm Mucky Peat or Peat (S3) (LRR K. L	R)
Hydroge	n Sulfide (A4)		Thin Dark Sur	face (S9			149B) Polyvalue Below Surface (S8) (I BR K I)
Stratifier	Lavers (A5)		High Chroma	Sands (9		R I V	Thin Dark Surface (S9) (I RR K I)	/
Depleter	l Below Dark Surface	(Δ11)	Loamy Mucky	Mineral	(F1) (I RI	R K I)	Iron-Manganese Masses (E12) (I RR K I	R)
Thick Da	ark Surface (A12)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Loamy Glever	Matrix /	(F2)	、 τ、 Ε /	Piedmont Eloodalain Soils (E19) (MI RA	149R)
Mesic Si	and c (A17)		Depleted Matr	iv (E3)	(12)		Red Parent Material (F21) (outside MLR	A 145)
	A 144A 145 149B)		Depleted Mati	urfaco (l	-6)		Voru Shallow Dark Surface (E22)	~ 143)
(WEIX	A 144A, 143, 143D)		Nedox Dark S		0) (E7)		Other (Explain in Pemarks)	
Sandy R	loud Matrix (S1)		Depieted Dark	cione (E	5 (F7) 29)			
Sandy B	odov (SE)		Mort (E10) (LE		0)		³ Indicators of hydrophytic vocatation and	
Sanuy R	Motrix (SC)		Mail (F10) (LF	(R R, L)	-04) (MI F	A 44E)	indicators of hydrophytic vegetation and	
Stripped	Matrix (56)			aterial (F	-21) (WILF	(A 145)	weiland hydrology musi be present,	
Destrictive	aver (if a base word).						unless disturbed or problematic.	
Restrictive	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present? Yes No	(
Remarks:							•	
Soils consist	of railroad ballast.							
1								

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

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

	<u> </u>		
Project/Site: CHPE	City/County: Feura Bus	h/Albany	Sampling Date: 10/21/22
Applicant/Owner: TDI		State: NY	Sampling Point: Wet P5-N
Investigator(s): C.Scrivner & C. Einstein	Section. Towns	ship. Range:	
Landform (hillside terrace etc.): Depression		pone): Concave	Slope %: 1
Subragian (I DD at MI DA): LDD D			
	Eorig: -7	3.88489 VV	Dalum: WGS 84
Soil Map Unit Name: RhA: Rhinebeck silty clay loam, 0 to 3	bercent slopes	NWI classification:	PSS1
Are climatic / hydrologic conditions on the site typical for this t	ne of year? Yes <u>x</u>	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrologysign	ificantly disturbed? Are "Normal	Circumstances" prese	nt? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynat	rally problematic? (If needed, e	xplain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point location	ns, transects, imp	portant features, etc.
Hydrophytic Vegetation Present? Yes X N	Is the Sampled Area	I	
Hydric Soil Present? Yes X N	within a Wetland?	Yes X	No
Wetland Hydrology Present? Yes X N	If yes, optional Wetlar	nd Site ID: Near flag	P5-N-59
HYDROLOGY			
Wetland Hydrology Indicators			inimum of two required)
Primary Indicators (minimum of one is required; sheek all the		Surface Soil Crocks	
Surface Water (A1) Water-St	ined Leaves (B9)	Orainade Patterns (B10)
High Water Table (A2)	upa (B13)	Moss Trim Lines (B	16)
X Saturation (A3) Marl Dep	sits (B15)	Drv-Season Water	Table (C2)
Water Marks (B1) Hvdrogen	Sulfide Odor (C1)	Cravfish Burrows (C	28)
Sediment Deposits (B2) Oxidized	hizospheres on Living Roots (C3)	Saturation Visible or	n Aerial Imagery (C9)
Drift Deposits (B3) Presence	of Reduced Iron (C4)	 Stunted or Stressed 	l Plants (D1)
Algal Mat or Crust (B4) Recent Ire	n Reduction in Tilled Soils (C6)	Geomorphic Positio	n (D2)
Iron Deposits (B5) Thin Muc	Surface (C7)	Shallow Aquitard (D	3)
Inundation Visible on Aerial Imagery (B7) Other (Ex	lain in Remarks)	Microtopographic R	elief (D4)
Sparsely Vegetated Concave Surface (B8)	<u>></u>	K FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes No I	epth (inches):		
Water Table Present? Yes No x	epth (inches):		
Saturation Present? Yes X No I	epth (inches): 0 Wetland H	Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, ae	al photos, previous inspections), if ava	ilable:	
Remarks:			
Nonano.			

Sampling Point: Wet P5-N

Trop Stratum (Plot size: 30!)	Absolute	Dominant	Indicator	Dominanco Tast workshopt
<u>I ree Stratum</u> (Piot size. 30)	% Covei	Species : Vos	FACW	Dominance Test worksneet.
2 Fravinus nennsylvanica	5	Ves	FACW	Number of Dominant Species
3 Rhampus cathartica	3	Yes	FAC	
4				Total Number of Dominant Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>87.5%</u> (A/B)
7.				Prevalence Index worksheet:
	13	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species <u>15</u> x 1 = <u>15</u>
1. Cornus amomum	55	Yes	FACW	FACW species 91 x 2 = 182
2. Rhamnus cathartica	15	No	FAC	FAC species 28 x 3 =84
3. Lonicera morrowii	8	No	FACU	FACU species 18 x 4 = 72
4. Cornus racemosa	8	No	FAC	UPL species x 5 =0
5.				Column Totals: <u>152</u> (A) <u>353</u> (B)
6.				Prevalence Index = $B/A = 2.32$
7.				Hydrophytic Vegetation Indicators:
	86	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	15	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Bidens frondosa	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3 Onoclea sensibilis	10	Yes	FACW	data in Remarks or on a separate sheet)
4. Lonicera morrowii	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Pilea pumila	3	No	FACW	
6 Impatiens capensis	2	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7 Toxicodendron radicans	2	No	FAC	Definitions of Vegetation Strata:
8 Solidaro rigantea		No	FACW	
a	<u> </u>		17.01.	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
10				at broast height (BBH), regardless of height.
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	48	=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	5	Yes	FACU	height.
2				
3.				Hydrophytic
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
	,			

Profile Desc	cription: (Describe t	o the dep	oth needed to docu	ment th	e indicat	or or co	nfirm the absence of in	ndicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 2/1	90	2.5YR 3/6	10	С	PL	Loamy/Clayey	Prominent redox concentrations
·								
·								
<u> </u>								
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	IS=Mask	ked Sand	Grains.	² Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)			2 cm Mucl	k (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Polyvalue Belo	ow Surfac	ce (S8) (I	_RR R,	Coast Pra	irie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		MLRA 149B	5)			5 cm Mucl	ky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	MLRA 1	49B) Polyvalue	Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		High Chroma	Sands (S	611) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral ((F1) (LRF	R K, L)	Iron-Mang	anese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (I	F2)		Piedmont	Floodplain Soils (F19) (MLRA 149B)
Mesic S	podic (A17)		Depleted Matri	ix (F3)			Red Parer	nt Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		X Redox Dark S	urface (F	6)		Very Shall	low Dark Surface (F22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Exp	plain in Remarks)
Sandy G	Bleyed Matrix (S4)		X Redox Depres	sions (F8	B)			
Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicators	s of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetland	hydrology must be present,
							unless o	disturbed or problematic.
Restrictive I	Layer (if observed):							
Туре:	Roc	:k						
Depth (ir	nches):	12					Hydric Soil Present	? Yes X No
· 、	,							
Remarks:								



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

Project/Site: CHPE	С	ity/County: Feura B	ush/Albany	Sampling Date: 10/21/22	
Applicant/Owner: TDI			State: NY	Sampling Point: Upl P5-N-59	
Investigator(s): C.Scrivner & C. Einstein		Section, Tov	vnship, Range:		
Landform (hillside, terrace, etc.): Flat	l ocal reli	ef (concave, conve)	(none): None	Slope %: 0	
Subregion (LRR or MLRA): LRR R	Lat: 42 59169° N		-73 88491° W	0icp0 %:	
Soil Man Unit Name: RhA: Rhinebeck silty di	av loam 0 to 3 percent slopes	Long.	NWI classification:	NA Datum. <u>WGG 04</u>	
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes <u>x</u>	No (If no,	explain in Remarks.)	
Are Vegetation, Soil, or Hydrol	ogysignificantly disturbed	d? Are "Norm	al Circumstances" prese	ent? Yes x No	
Are Vegetation, Soil, or Hydrol	ogy naturally problematic	? (If needed	, explain any answers in	Remarks.)	
SUMMARY OF FINDINGS – Attach	site map showing samp	ling point loca	tions, transects, i	mportant features, etc.	
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	ea		
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X	If yes, optional Wet	land Site ID:		
Adjacent maintained stone/cobble road.					
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 Crack	s (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)	3) Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (E	316)	
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	on (C4) Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in T	Tilled Soils (C6) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		MICrotopographic F		
Sparsely vegetated Concave Surface (Bo	5)			5)	
Surface Water Present? Ves	No y Dopth (inchos):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches):	Wetland	d Hydrology Present?	Yes No X	
(includes capillary fringe)	' ` ` ` ` _		, ,		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previo	ous inspections), if a	available:		
Remarks:					

Sampling Point: Upl P5-N-59

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:2(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1		·		FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species <u>18</u> x 4 = <u>72</u>
4				UPL species <u>5</u> x 5 = <u>25</u>
5				Column Totals: 23 (A) 97 (B)
6				Prevalence Index = B/A = 4.22
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	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Artemisia vulgaris	5	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supporting
3. Plantago lanceolata	3	No	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				Indicators of hydric soil and wetland hydrology must be present. unless disturbed or problematic.
7				Definitions of Vegetation Strata;
R				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12		,		Herb – All herbaceous (non-woody) plants, regardless
	23	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in height.
2				
3				Hydrophytic
Δ				Vegetation Present? Yes No X
···		-Total Cover		
De versione (le stude abete sumbere bere er en e conc				
Remarks. (include proto numbers here of on a sepa	rate sneet.			

	<	Redo	x Featur	es			
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
						<u> </u>	
¹ Type: C=Concentration, D=D	epletion, RM	=Reduced Matrix, N	IS=Mask	ed Sand	Grains.	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Indicators:						Indicators for P	Problematic Hydric Soils ³ :
Histosol (A1)		Dark Surface (S7)			2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (L	RR R,	Coast Prairi	e Redox (A16) (LRR K, L, R)
Black Histic (A3)		MLRA 149B	5)			5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue B	elow Surface (S8) (LRR K, L)
Stratified Layers (A5)		High Chroma	Sands (S	11) (LRR	K, L)	Thin Dark S	urface (S9) (LRR K, L)
Depleted Below Dark Surfa	ace (A11)	Loamy Mucky	Mineral (F1) (LRF	K, L)	Iron-Mangai	nese Masses (F12) (LRR K, L, R
Thick Dark Surface (A12)		Loamy Gleyed	Matrix (I	-2)		Piedmont Fl	oodplain Soils (F19) (MLRA 149
Mesic Spodic (A17)		Depleted Matri	x (F3)			Red Parent	Material (F21) (outside MLRA 14
(MLRA 144A, 145, 149	В)	Redox Dark S	urface (F	6)		Very Shallov	w Dark Surface (F22)
Sandy Mucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Expla	ain in Remarks)
Sandy Gleyed Matrix (S4)		Redox Depres	sions (F8	3)			
Sandy Redox (S5)		Marl (F10) (LR	R K, L)			³ Indicators of	of hydrophytic vegetation and
Stripped Matrix (S6)		Red Parent Ma	aterial (F	21) (MLR	A 145)	wetland h	ydrology must be present,
						unless dis	sturbed or problematic.
Restrictive Layer (if observed	:):						
Type: Ston	e/cobble						
	0					Hydric Soil Present?	Yes No X



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

Project/Site: CHPE	City/County: Bethlehem/Albany Sampling Date: 8/24/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-P Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 42 35 12N	Long:73 52 46W Datum: WGS84
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slope	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:near flag P5-P-4
Remarks: (Explain alternative procedure Shrub swamp.	s here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)	
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)	
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	x Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes x	No Depth (inches): 12		
Saturation Present? Yes x	No Depth (inches): 6 Wetlan	d Hydrology Present? Yes X No	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:	
Remarks:			

Sampling Point: P5-P Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet
1		Species?	Status	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3 4				Total Number of Dominant Species Across All Strata: 5 (B)
5		·		Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 80 x 1 = 80
1. Cornus amomum	30	Yes	FACW	FACW species 70 x 2 = 140
2. Salix bebbiana	25	Yes	FACW	FAC species 15 x 3 = 45
3. Viburnum dentatum	5	No	FAC	FACU species <u>5</u> x 4 = <u>20</u>
4. Ulmus americana	5	No	FACW	UPL species x 5 =
5				Column Totals: <u>170</u> (A) <u>285</u> (B)
6				Prevalence Index = B/A = <u>1.68</u>
7				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Typha latifolia	60	Yes	OBL	X 3 - Prevalence Index is ≤3.0'
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations' (Provide supporting
3. Equisetum arvense	10	No	FAC	data in remarks of on a separate sheety
4. Symphyotrichum novae-angliae	5	No	FACW	Problematic Hydrophytic Vegetation (Explain)
 <u>Cornus amomum</u> <u>Cornus amomum</u> 	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sanling/shruh – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				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. Parthenocissus quinquefolia	5	Yes	FACU	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	ription: (Describe t	o the de	oth needed to docu	ument th	ne indica	ator or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redox	x Featur	es	2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-5	10YR 2/1	60	2.5YR 4/6	40	<u> </u>	pl	Muck	Prominent redox concentrations
5-12	10YR 2/1	80	10YR 4/6	20	<u> </u>		Loamy/Clayey	Prominent redox concentrations
<u> 12-19 </u>	10YR 4/1	80	10YR 5/6				Loamy/Clayey	Prominent redox concentrations
							·	
							·	
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	IS=Masl	ked Sand	d Grains.	² Location: P	/L=Pore Lining, M=Matrix.
Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted X Thick Da Mesic Sp (MLR Sandy M Sandy G Sandy R Stripped	ndicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface urk Surface (A12) podic (A17) A 144A, 145, 149B) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Depleted Matri: X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) w Surfac) ace (S9) Gands (S Mineral Matrix (x (F3) urface (F Surface sions (F R K, L) iterial (F	ce (S8) () (LRR R 611) (LR (F1) (LR F2) (F7) 8) 21) (MLI	LRR R, , MLRA [,] R K, L) R K, L) R A 145)	Indicators fo 2 cm Mu Coast Pi 5 cm Mu 149B) Polyvalu Thin Dar Iron-Mar Piedmor Red Par Very Sha Other (E ³ Indicato wetlar unless	or Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ie Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) rent Material (F21) (outside MLRA 145) allow Dark Surface (F22) Explain in Remarks) prs of hydrophytic vegetation and nd hydrology must be present, s disturbed or problematic.
Type: Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
remarks:								

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

Project/Site: CHPE	City/County: Bethlehem/Albany Sampling Date: 8/24/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-P Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Local	relief (concave, convex, none): <u>convex</u> Slope %: <u>40</u>
Subregion (LRR or MLRA): LRR R Lat: 42 35 12N	Long: <u>-73 52 46W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slop	esNWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area
Hydric Soil Present?	Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes No X	If yes, optional Wetland Site ID: near flag P5-P-4
Remarks: (Explain alternative procedures Railroad embankment.	here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil C	Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patt	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lin	es (B16)		
Saturation (A3)	Marl Deposits (B15)	Dry-Season W	/ater Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burro	ows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roo	s (C3) Saturation Vis	ible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Str	essed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	C6) Geomorphic F	Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquita	ard (D3)		
Inundation Visible on Aerial Imagery (B7)) Other (Explain in Remarks)	Microtopograp	hic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	FAC-Neutral 1	est (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):	Netland Hydrology Prese	ent? Yes No X		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ons), if available:			
Remarks:					

Sampling Point: P5-P Upl

1.	<u>Tree Stratum</u> (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
3.	1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
5.	3 4				Total Number of Dominant Species Across All Strata:1(B)
7.	5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
	7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15) 0BL species 0 x1 = 0 1.			=Total Cover		Total % Cover of: Multiply by:
1.	Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
2.	1				FACW species 0 x 2 = 0
3.	2				FAC species 85 x 3 = 255
4.	3				FACU species7 x 4 =28
5.	4				UPL species5 x 5 =25
6.	5.				Column Totals: 97 (A) 308 (B)
7.	6.				Prevalence Index = B/A = 3.18
	7.				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5') 1. Setaria pumila 80 Yes FAC 2. Asclepias purpurascens 5 No FACU 3. Equisetum arvense 5 No FAC 4. Daucus carcta 5 No FACU 5. Juniperus virginiana 2 No FACU 6.			=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
1. Setaria pumila 80 Yes FAC 3 - Prevalence Index is ≤3.0 ¹ 2. Asclepias purpurascens 5 No FACU 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 3. Equisetum arvense 5 No FAC Problematic Hydrophytic Vegetation ¹ (Explain) 5. Juniperus virginiana 2 No FACU Problematic Hydrophytic Vegetation ¹ (Explain) 6.	<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
2. Asclepias purpurascens 5 No FACU 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 3. Equisetum arvense 5 No FAC	1. Setaria pumila	80	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
3. Equisetum arvense 5 No FAC 4. Daucus carota 5 No UPL Problematic Hydrophytic Vegetation ¹ (Explain) 5. Juniperus virginiana 2 No FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6.	2. Asclepias purpurascens	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
4. Daucus carota 5 No UPL Problematic Hydrophytic Vegetation ¹ (Explain) 5. Juniperus virginiana 2 No FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7.	3. Equisetum arvense	5	No	FAC	data in Remarks or on a separate sheet)
5. Juniperus virginiana 2 No FACU ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7.	4. Daucus carota	5	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
a	5 Juniperus virginiana	2	No	FACU	
7.	6				Indicators of hydric soil and wetland hydrology must
8.	7				Definitions of Vegetation Strata:
S	8				
10.	9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.	10 11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30') 1.	12	97	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.	<u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
3.	2.				
4	3.				Hydrophytic
=Total Cover Remarks: (Include photo numbers here or on a separate sheet.)	4.				Present? Yes X No
Remarks: (Include photo numbers here or on a separate sheet.)		:	=Total Cover		
	Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Profile Desc	cription: (Describe t	o the dept	h needed to doc	ument t	he indica	tor or co	onfirm the absence of indicators.)	
Depth	Matrix		Redo	x Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
					·			
¹ Type: C=Ce	oncentration, D=Deple	etion, RM=F	Reduced Matrix, N	//S=Mas	ked Sand	l Grains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Problematic Hydric S	ioils ³ :
Histosol	(A1)		Dark Surface ((S7)			2 cm Muck (A10) (LRR K, L, ML	RA 149B)
Histic Ep	oipedon (A2)	_	Polyvalue Beld	ow Surfa	ice (S8) (I	RR R,	Coast Prairie Redox (A16) (LRR I	K, L, R)
Black Hi	stic (A3)	_		5)	(-/(,	5 cm Mucky Peat or Peat (S3) (L	RR K. L. R)
Hvdroge	n Sulfide (A4)		Thin Dark Sur	, face (S9) (LRR R	MLRA 1	149B) Polyvalue Below Surface (S8) (L	RR K. L)
Stratified	l avers (A5)	_	High Chroma	Sands (S	511) (LRF	8 K. L.)	Thin Dark Surface (S9) (LRR K. I	L)
Depleter	d Below Dark Surface	(A11) —	l oamy Mucky	Mineral	(F1) (I R	RKI)	Iron-Manganese Masses (F12) (I	RRKIR)
Thick Da	ark Surface (A12)	(,,,,,)	Loamy Gleved	Matrix ((F2)	、 · · · , ∟)	Piedmont Floodplain Soils (F19) ((MI RA 149R)
Mesic S	nodic $(A17)$	_	Depleted Matr	iv (F3)	(12)		Red Parent Material (F21) (outsid	de MI RA 145
	A 144A 145 149B)	_		urface (F	-6)		Very Shallow Dark Surface (E22)	
Sandy M	Aucky Mineral (S1)	_	 Depleted Dark	Surface	0) (E7)		Other (Explain in Remarks)	
Sandy R	Cloved Matrix (S4)	_	Bodox Dopros	cione (E	(17) (2)			
Sandy B		_	Mort (E10) /LE		0)		³ Indicators of hydrophytic vocatat	ion and
Sanuy N	Motrix (S6)	—	Nall (F10) (LR	nn, L)	21) (MI E	DA 44E)		
Supped		_		ateriai (i	21) (IVILI	(A 145)	unloss disturbed or problematic	sent,
Bootrictivo	l over (if cheerved)							
Restrictive	Layer (II observed):							
Type.								
Depth (ii	nches):						Hydric Soil Present? Yes	No <u>X</u>
Remarks:							1	
Soils consist	of railroad ballast.							
1								

Project/Site:	Champlain Hudson Power Expre	ss City/Cou	inty: Bethlehem and N	lew Scotland, Albany Cou	Sampling Date:	11/08/2021
Applicant/Owner:	Kiewitt F	Engineering Group		State: New York	Sampling Point:	WF-1W
Investigator(s):	MA KC	Section,	Township, Range:	Town of	New Scotland	
Landform (hillslope, terrac	e, etc): Swale	Local relief (conc	ave, convex, none):	concave	Slope	(%): 0-3
Subregion (LRR or MLRA)	LRR R	Lat: 42.	59263686 Lc	ong: -73.8844109	9 Datum	1: WGS 1984
Soil Map Unit Name:	Rhi	nebeck silty clay loam		NWI classification	n:	
Are climatic / hydrologic co	nditions on the site typical for thi	s time of year? Yes	X No	(If no, explain in Remarks	3.)	
Are Vegetation X,	Soil X , or Hydrology	X significantly disturbe	d? Are "Nori	mal Circumstances" preser	nt? Yes X	(No
Are Vegetation,	Soil, or Hydrology	naturally problemation	? (If neede	d, explain any answers in F	Remarks.)	
SUMMARY OF FIND	INGS - Attach site map s	howing sampling p	oint locations, tra	ansects, important f	eatures, etc.	
Hydronhytic Vegetation	Present? Yes X	No.	Is the Sampled Are			
Hydric Soil Present?	Yes		within a Wetland?	Yes X	No	
Wetland Hydrology Pres	ent? Yes X	No	If ves optional Wetl:	and Site ID:	WF-1W	-
			n yoo, optional moto			
Remarks: (Explain alterr PEM wetla	lative procedures here or in a se nd along directly adjacent to raily	oarate report.) /ay. Vegetation, hydrology	r and soils are all distur	rbed due to proximity to rail	Iroad.	
Identified as We	tland EDR-F on wetl	and mapping an	d in report tex	t.		
Wetland Hydrology Ind	icators:					
Primary Indicators (mini	num of one required; check all th	at apply)	(20)	Secondary Indicat	tors (minimum of tv	vo required)
X Surface Water (A1)		_ vvater-Stained Leaves	(89)	Surface Soli	Cracks (B6)	
X High Water Table (/	~2)	_ Aquatic Fauna (B13)		Drainage Par	tterns (B10)	
X Saturation (A3)	_	_ Mari Deposits (B15)	(01)		nes (B10)	
Water Marks (B1)	(B2) —	_ Hydrogen Sullide Odor	(C1) an Living Boots (C2)	Dry-Season	vvater lable (C2)	
Sediment Deposits	(B2)	_ Oxidized Knizospheres	on Living Roots (C3)	Crayfish Burr	'OWS (CO) isible on Asrial Ima	
Algol Mot or Cruct		_ Presence of Reduced I	in Tilled Seile (C6)	Saturation vi	sible on Aerial Ima	igery (C9)
Iron Doposite (B5)	D4)	Thin Muck Surface (C7		Sturited of St	Position (D2))
Inundation Visible of	n Aerial Imageny (B7)	Other (Evolution in Rems	/ arke)		itard (D3)	
Sparsely Vegetated	Concave Surface (B8)		irka)	Microtopogra	anhic Relief (D4)	
				X FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present?	Yes <u>X</u> No	Depth (inches):	0.5			
Water Table Present?	Yes <u>X</u> No	Depth (inches):	3			
Saturation Present?	Yes <u>X</u> No	Depth (inches):	0 Wetlar	nd Hydrology Present?	Yes X	No
(includes capillary fringe)					
Describe Recorded Data		aorial photos, provious ir	i			
	r (stream gauge, monitoring weil,	aeriai priotos, previous in	specions), il available			
Remarks:						

EGETATION - Use scientific names of plants.								- 1 4 4
				Dominance Test	worksheet:			
				Number of Domina	ant Species			
	Absolute	Dominant	Indicator	That Are OBL, FA	CW, or FAC:		1	_ (A)
Free Stratum (Plot size: 30 Feet)	% Cover	Species?	Status					
<u> </u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Total Number of D	ominant			
·				Species Across Al	l Strata:		1	_ (B)
l.				Percent of Domina	int Species			
i.				That Are OBL, FA	CW, or FAC:		100.0	_ (A/B)
				Prevalence Index	worksheet:			
·				Total % Cove	er of:	М	ultiply by:	
	0	_ = Total Cove	er	OBL species	0	x 1 =	0	_
apling/Shrub Stratum (Plot size: 15 Feet)				FACW species	70	x 2 =	140	
				FAC species	0	x 3 =	0	
				FACU species	0	x 4 =	0	—
				IIPL species	5	x 5 =	25	
				Column Totals:	75	(A) –	165	(B)
				-	10	(~) _	100	(5)
				Prevalence	ndex = B/A =		2.2	
	0	= Total Cove	er	Hydrophytic Vege	etation Indica	ators:		
Herb Stratum (Plot size:5 Feet)				X 1 - Rapid Test	t for Hydrophy	tic Veget	ation	
. Phragmites australis / Common reed	70	Yes	FACW	X 2 - Dominanc	e Test is >50%	6		
. <u>Salix / Willow</u>	5	No	N	X 3 - Prevalence	e Index ≤3.0¹			
				4 - Morpholog	jical Adaptatio	ons¹ (Prov	vide suppo	rting
				Problematic H	lydrophytic Ve	egetation	1 (Explain)	
				¹ Indicators of hydri	ic soil and we	land hyd	rology mus	it
·				be present, unless	disturbed or	problema	itic.	
·				Definitions of Veg	etation Strat	a		
n								
1				Tree - Woody plan	ts 3 in. (7.6 ci	n) or mo	re in diame	ter at
2.				breast height (DBH	l), regardless	of height	t.	
	75	= Total Cove	er	Sapling/shrub - V	Voody plants I	ess than	3 in. DBH	and
Voody Vine Stratum (Plot size: 30 Feet)		-		greater than or equ	ual to 3.28 ft (1 m) tall.		
·				Herb - All herbace	ous (non-woo	dy) plant	s, regardle	ss of
-				size, and woody pl	lants less thar	1 3.28 ft t	all.	
l				Woody vines - All	woody vines	greater t	han 3.28 ft	in
				height.				
	0	= Total Cove	er	Hydrophytic				
				Vegetation				
				Present?	Yee Y		, ,	
				Liesent(168 /		·	

S	0	I	L
-	-		

Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12	10YR 2/1	100					Sandy Loam			
ype: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		² Locatio	n: PL=Por	e Lining, M=N	latrix.
ydric Soil In	dicators:						Indicators for	or Problen	natic Hydric \$	Soils ³ :
- Histosol ((A1)		Polyvalue Belo	w Surface (S	8) (LRR R.	MLRA 149	3B) 2 cm Mu	uck (A10)	(LRR K. L. MI	LRA 149B)
- Histic Eni	inedon (A2)		Thin Dark Surfa	ace (S9) (I F	R R. MI RA	4 149B)	Coast P	rairie Red	ox (A16) (IR	R K. I. R)
Black His	tic (A3)		Loamy Mucky I	Mineral (E1)			5 cm Mi	icky Peat /	or Peat (S3) (
_ Diack This	n C (AO)		Learny Gloved	Motrix (E2)	(= ((((((((((((((((((Dark Su			
Hydroger			Loany Gleyed	(Γ_2)			Daik Su			
_ Stratified	Layers (A5)		Depleted Matrix	(F3)				IE BEIOW S		
	Below Dark Surface (A	(11)	Redox Dark Su	mace (F6)			I nin Da	rk Surface	(S9) (LRR K	., L)
_ Thick Da	rk Surface (A12)		Depleted Dark	Surface (F7)			Iron-Ma	nganese N	Aasses (F12)	(LRR K, L, R
Sandy M	ucky Mineral (S1)		Redox Depress	sions (F8)			Piedmo	nt Floodpla	ain Soils (F19)	(MLRA 149B
_ 00110 m	leved Matrix (S4)						Mesic S	podic (TA6	6) (MLRA 14	4A, 145, 149B
Sandy GI								ant Matari	ial (E21)	
Sandy Gl	edox (S5)						Red Pai	rent materi	iai (FZT)	
Sandy Gl Sandy Gl Sandy Re Stripped	edox (S5) Matrix (S6)						Red Par Very Sh	allow Dark	surface (TF1	2)
Sandy Gl Sandy Gl Sandy Re Stripped Dark Suri	edox (S5) Matrix (S6) face (S7) (LRR R, ML	RA 149B)					Very Sh Other (E	allow Dark Explain in F	k Surface (TF1 Remarks)	2)
Sandy GI Sandy GI Stripped Dark Suri	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E natic.	allow Dark Explain in F	Surface (TF1 Remarks)	2)
Sandy Gi Sandy Gi Sandy Re Stripped Dark Sur Indicators of I	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E	allow Dark Explain in F	k Surface (TF1 Remarks)	2)
Sandy GI Sandy GI Sandy Re Dark Sur ndicators of I Sestrictive La Type:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E	allow Dark	Surface (TF1 Remarks)	2)
Sandy GI Sandy GI Sandy Re Dark Surd ndicators of I Sestrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E natic.	allow Dark Explain in F	Surface (TF1 Remarks)	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I sestrictive La Type: Depth (inc emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E natic.	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy GI Sandy Re Dark Surd Dark Surd Ndicators of I Sestrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E natic.	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy GI Sandy Re Dark Surd ndicators of I sestrictive La Type: Depth (inc 'emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E natic.	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy GI Sandy Re Dark Suri ndicators of I sestrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy Re Dark Surf Dark Surf cestrictive La Depth (inc 	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I cestrictive La Type: Depth (inc :emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I cestrictive La Type: Depth (inc :emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf cestrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I estrictive La Depth (inc emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	allow Dark Explain in F	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I testrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes):	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I estrictive La Type: Depth (inc emarks: S	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes):	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Dark Surf ndicators of I cestrictive La Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes):	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf estrictive La Type: Depth (inc emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes):	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf estrictive La Type: Depth (inc emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf estrictive La Type: Depth (inc emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf estrictive La Type: Depth (inc emarks:	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf estrictive La Type: Depth (inc emarks:S	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Red Par Very Sh Other (E Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I testrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf ndicators of I restrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Dark Surf ndicators of I restrictive La Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	ss disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Dark Surf ndicators of I restrictive La Type: Depth (inc temarks:S	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland	hydrology must be p	inches.	as disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Dark Surf ndicators of I estrictive La Type: Depth (inc :emarks:S	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland rom railroad.	hydrology must be p	inches.	as disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf estrictive La Type: Depth (inc emarks:S	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland rom railroad.	hydrology must be p	inches.	as disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX
Sandy GI Sandy Re Stripped Dark Surf adicators of I estrictive La Type: Depth (inc emarks: S	edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): thes): Soil likely disturbed fill fi	RA 149B) and wetland rom railroad.	hydrology must be p	inches.	as disturbed	l or probler	Hydric Soil Pres	sent?	Yes	2) NoX



Wetland F - View facing south

Package 5

SITE PHOTOGRAPHS

Champlain Hudson Power Express

Project/Site:	Champlain Hu	dson Power Expres	s City/Co	unty: New Scot	tland, Albany County.	Sampling Date: 11/08/202	21
Applicant/Owner:	·	Kiewitt Er	ngineering Group		State: New York	Sampling Point: WF-1U	
Investigator(s):		MA, KC	Section	, Township, Range:	Town of	of New Scotland	
Landform (hillslope, ter	race, etc):	Upland mound	Local relief (con	cave, convex, none):	convex	Slope (%): 0-3	5
Subregion (LRR or ML	RA):	LRR R	Lat: 42	.59254897	Long:73.884344	52 Datum: WGS 1	984
Soil Map Unit Name:		Rhin	ebeck silty clay loam		NWI classification	on:	
Are climatic / hydrologi	c conditions on the	site typical for this	time of year? Yes	<u>X No</u>	(If no, explain in Remark	s.)	
Are Vegetation	, Soil,	, or Hydrology	significantly disturbe	ed? Are "N	ormal Circumstances" prese	nt? Yes X No	
Are Vegetation	, Soil,	, or Hydrology	naturally problemat	ic? (If need	ded, explain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	i <mark>ch site map s</mark> h	iowing sampling i	ooint locations,	transects, important	features, etc.	
Hydrophytic Vegetat	ion Present?	Yes	No X	Is the Sampled A	rea		
Hydric Soil Present?	,	Yes		within a Wetland	? Yes	No X	
Wetland Hydrology F	Present?	Yes		If ves. optional We	etland Site ID:		
Remarks: (Explain a Upland	Iternative procedur point for PEM wet	res here or in a sepa land F on berm adja	arate report.) acent to railroad.				<u> </u>
HYDROLOGY							
Wetland Undralage	Indicatora						
wetiand Hydrology	indicators:	avirady aboats all the	t apply)		Secondary India	store (minimum of two required)	
Surface Water		Julieu, check all tha	Water Stained Leaves	(B0)	Secondary Indica	LCracke (B6)	·
High Water Tab	(AT) (a (A2)		Aquatic Fauna (B13)	(09)	Surface Sol	atterns (B10)	
Saturation (A3)		—	Marl Deposits (B15)		Moss Trim I	ines (B16)	
Water Marks (B	(1)	_	Hydrogen Sulfide Odc	r (C1)	Dry-Seasor	Water Table (C2)	
Sediment Depo	usits (B2)	_	Oxidized Rhizosphere	s on Living Roots (C3	3) Cravfish Bu	rrows (C8)	
Drift Deposits (F	B3)		Presence of Reduced	Iron (C4)	Saturation \	/isible on Aerial Imagery (C9)	
Algal Mat or Cri	ust (B4)		Recent Iron Reduction	in Tilled Soils (C6)	Stunted or State	Stressed Plants (D1)	
Iron Deposits (E	35)		Thin Muck Surface (C	7)	Geomorphic	Position (D2)	
Inundation Visit	ole on Aerial Image	ery (B7)	Other (Explain in Rem	arks)	Shallow Ag	uitard (D3)	
Sparsely Veget	ated Concave Surf	face (B8)		,	Microtopogr	aphic Relief (D4)	
		. ,			FAC-Neutra	I Test (D5)	
						· · /	
Field Observations	:						
Surface Water Prese	ent? Yes	NoX	_ Depth (inches):				
Water Table Present	?? Yes	NoX	_ Depth (inches):			V N V	
Saturation Present?	Yes	No <u>X</u>	_ Depth (inches):	Wet	and Hydrology Present?	Yes NoX_	_
(includes capillary fri	nge)						
Describe Recorded I	Data (stream gaug	e monitoring well a	aerial photos previous i	nspections) if availab	je.		
	Data (Dirodin gaug	o, monitoring won, a					
Remarks:							

VEGETATION - Use scientific names of plants.					Samp	oling Poir	nt: <u> </u>	/F-1U
	Absolute	Dominant	Indicator	Dominance Test Number of Domin That Are OBL, FA	worksheet: ant Species CW, or FAC:		2	_ (A)
Tree Stratum (Plot size:30 Feet)	% Cover	Species?	Status	Total Number of F	Daminant			
1. Populus grandidentata / Big-tooth aspen	50	Yes	FACU	Total Number of L	Jominant			
2. Quercus alba / White oak	10	No	FACU	Species Across A	al Strata:		4	_ (□)
3. Prunus serotina / Black cherry	5	No	FACU	Deve and of Develo				
4.				Percent of Domin	ant Species			(4 (🗅)
5.				I hat Are OBL, FA	CW, or FAC:		50.0	_ (A/B)
6				Prevalence Index	x worksheet:	Ν.	ultiply by:	
	65	= Total Cove	er					
Sapling/Shrub Stratum (Plot size: 15 Feet)					0	· × ·	0	
1. Rhamnus cathartica / European buckthorn	20	Yes	FAC	FACW species			75	
2				FAC species	25	$x_{3} = -$	/5	
2				FACU species	65	· × 4 = _	260	
3				UPL species	10	x5=_	50	
				Column Iotals:	100	. ^(A) _	385	(B)
6				Prevalence	Index = B/A =		3.85	
1		= Total Cove		Hydrophytic Veg	etation Indica	ators:		
Herb Stratum (Plot size: 5 Feet)				1 - Rapid Tes	st for Hydrophy	vtic Veae	tation	
1. Fragaria vesca / Wild strawberry. Wood strawberry	10	Yes	UPL	2 - Dominand	ce Test is >50%	%		
2. Rhamnus cathartica / European buckthorn	5	Yes	FAC	3 - Prevalence	ce Index ≤3.0¹			
3.				4 - Morpholo	gical Adaptatio	ons ¹ (Pro	vide suppo	ortina
4				Problematic	Hydrophytic Ve	egetation	¹ (Explain)
6.				¹ Indicators of hyd	ric soil and we	tland hyd	Irology mu	st
7.	_			be present, unles	s disturbed or	problema	atic.	
8 9				Definitions of Ve	getation Stra	ta		
10 11 12				Tree - Woody plan breast height (DB	nts 3 in. (7.6 c H), regardless	m) or mo of heigh	re in diam t.	eter at
Voody Vine Stratum (Plot size: 30 Feet)	15	= Total Cove	 F	Sapling/shrub - V greater than or ec	Woody plants l qual to 3.28 ft (less than (1 m) tall.	3 in. DBH	and
1				Herb - All herback size, and woody p	eous (non-woo plants less thai	ody) plant n 3.28 ft t	ts, regardle all.	ess of
3. 4.				Woody vines - A height.	ll woody vines	greater t	han 3.28 f	t in
	0	= Total Cove	r	Hydrophytic Vegetation Present?	Yes	No	» <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)

S	0	I	L
-	-		

Depth	Matrix	ne dehru uee	Redox	k Features	or comm	ale abser	ice of mulcators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 2/1	60	10YR 5/4	40	<u> </u>	М	Loam			
		· ·		_						
		· ·								
		· ·								
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		· ·								
		· ·								
		· ·								
								- BL-Boro Liping M-Matrix		
Type. C=Con	icentration, D-Depletic			keu Sanu Gi	ans.			. PL-Pore Lining, M-Mainx.		
Hydric Soil Ir	ndicators:						Indicators for	Problematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R,	MLRA 149	B) 2 cm Mud	ck (A10) (LRR K, L, MLRA 149B)		
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	A 149B)	Coast Pra	airie Redox (A16) (LRR K, L, R)		
Black His	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Muo	cky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)	·	Loamy Gleyed I	Matrix (F2)			Dark Surface (S7) (LRR K, L)			
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyvalue Below Surface (S8) (LRR K, L)			
 Depleted	Below Dark Surface (A11)	Redox Dark Su	face (F6)			Thin Dark Surface (S9) (LRR K. L)			
 Thick Da	rk Surface (A12)	· ·	 Depleted Dark S	Surface (F7)			Iron-Manganese Masses (F12) (LRR K. L. R)			
 Sandv M	uckv Mineral (S1)		Redox Depress	ions (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)		
Sandy G	leved Matrix (S4)		_	()			Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)		
Sandy R	edox (S5)						Red Pare	ent Material (E21)		
Stripped	Matrix (S6)						Very Sha	llow Dark Surface (TE12)		
Dark Sur	face (S7) (IRRR MI	RA 149B)					Other /Ex	(nlain in Remarks)		
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problen	natic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (Inc	cnes):						Hydric Soil Pres	ent? Yes <u>X</u> NO		
Remarks:										
(Gravel refusal at 8in									

